

**ENGINEERED PRODUCTS** 

### **NEW PRODUCTS**

#### PLICORD® EXTREMEFLEX™ PETROLEUM

APPLICATION:

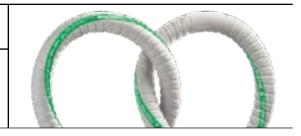
An extremely flexible and lightweight drop hose for use in tank truck and in-plant operation to transfer diesel, ethanol, gasoline, oil and petroleum-base products up to 60% aromatic content. Corrugated construction for lower drag coefficient and superior abrasion resistance. See page 192



#### PLICORD® EXTREMEFLEX™ FOOD GRADE

APPLICATION:

An extremely flexible and lightweight hose for transferring oily and non-oily edibles in gravity flow, pressure or suction service. See page 76



### PLICORD® EXTREMEFLEX™ **BROWN CHEMICAL**

APPLICATION:

A high-tech, flexible and versatile chemical hose capable of handling a wide variety of acids, alcohols, salt solutions and petroleum based products. See page 50



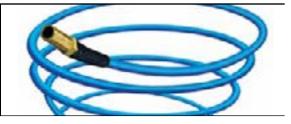
#### BLUE FORTRESS® 300 WITH FDA COMPLIANT WHITE TUBE

**APPLICATION:** A high-quality construction for hot water up to 200°F (93°C) cleanup service in food processing plants, dairies, packing houses, bottling plants, breweries, canneries and creameries. Its super abrasion and oil-resistant cover provides maximum protection against the adverse effects of oil and animal fats. The cover of our Blue Fortress® 300 hose incorporates Microban's® antimicrobial built-in product protection. The white tube is comprised of FDA compliant materials. See page 86



### F5™ AIR HOSE

APPLICATION: A strong, low-temperature, highly flexible air hose for pneumatic and industrial use in a variety of applications. Outperforms PVC and rubber hose. See page 22



### PLICORD® OILFIELD FRAC HOSE

APPLICATION:

The Plicord® Oilfield Frac Hose is a rugged and flexible hose designed to convey crude oil and oil slurry mixtures for Frac tank connections. Also available with exclusive ARC (Abrasion Resistant Cover) for severe applications where abrasion resistance is needed. See page 184



#### APPLICATION WARNING

The products in this catalog have been tested under controlled laboratory conditions to meet specific test criteria. These tests are not intended to reflect the performance of the product or any other material in any specific application, but are intended to provide the user with application guidelines. The products are intended for use by knowledgeable persons having the technical skills necessary to evaluate their suitability for specific applications.

Since Veyance Technologies, Inc. has no control over the number and variety of applications for which its products may be purchased or the conditions under which its products may be used by others, Veyance Technologies assumes no responsibility for performance results and applications. This catalog, however, contains available information to allow the user to determine the product's acceptability and fitness for specific applications. No statement contained herein shall be construed as a license to operate, or as a recommendation or inducement to infringe existing patents or as an endorsement of products of specific manufacturers or systems.

Failure to follow procedures for selection, installation, care, maintenance and storage of hoses may result in the hose's failure to perform properly and may result in damage to property and/or serious injury. Please refer to the General Information section of the catalog for hose care, maintenance and storage information.

All product design, dimensional and general information in this catalog is subject to change without prior notice. Working pressures and other technical information have been prepared from actual test results and other data considered to be reliable. However, Veyance Technologies assumes no responsibility for the accuracy of this information under varied conditions found in field use.

#### **CHEMICAL HOSE**

Do not use chemical hose at temperatures or pressures above those recommended by the manufacturer. All operators must be thoroughly trained in the care and use of this hose and must, at all times, wear protective clothing. A hose or system failure could cause the release of poisonous, corrosive or flammable material.

Detailed information concerning storage, care and maintenance may be found in the Hose Handbook published by the Rubber Manufacturer's Association, 1400 K Street, N.W., Washington, D.C. 20005 and in SAE Recommended Practices J1273.



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- 6. Prices are subject to change without notice, and such items will be billed at prices in effect at the time of shipment. Customer will be notified of any price increase and may cancel any undelivered portion of the order by written notice to Veyance, provided such written notice is received by Veyance not more than 10 days after your receipt of notification of the increase. Upon such cancellation Customer shall have no liability to Veyance for the canceled portion of the order except as to product manufactured or in process, components procured by Veyance from outside sources, and special tooling and equipment procured for performance of this order.
- 7. All prices are subject to increase from time to time to compensate for any tax, excise, or levy imposed upon the products sold, or upon the manufacture, sale, transportation, or delivery of them or whenever any tax, excise, levy law, or governmental regulation has the effect, directly or indirectly, of increasing the cost of manufacture, sale, or delivery. If any government action or law should have the effect of establishing a maximum price on product to be delivered, Veyance may, at its option and without liability to Customer, terminate its obligation with respect to future shipments upon thirty (30) days written notice.
- 8. Veyance shall not be liable or deemed in default for failure to deliver or delay in delivery due to any cause beyond its reasonable control. If unable to meet delivery schedules, Veyance will endeavor to allocate material fairly among its Customers, but reserves to itself final determination of the deliveries to be made without liability.
- 9. Veyance will indemnify its Customer against all claims and demands for infringement of any United States patent by the product furnished under any accepted order, provided the Customer notifies Veyance of any patent infringement and upon request tenders Veyance the defense of the claim. CUSTOMERS WHO FURNISH SPECIFICATION TO VEYANCE AGREE TO HOLD VEYANCE HARMLESS AGAINST ANY CLAIMS WHICH ARISE OUT OF VEYANCE'S COMPLIANCE WITH SUCH CUSTOMER SPECIFICATIONS.
- 10. Title to the goods shall pass to Customer upon passage of the risk of loss; provided, however, that to the extent permitted by law, until each of the goods delivered hereunder has been paid for in full, Veyance shall retain title to the goods; however, all risk of loss and responsibility for transportation and storage, taxes, and duties shall transfer in accordance with these terms of sale. Customer hereby agrees that notwithstanding any information shown in this confirmation regarding any estimated shipment, production, or requested date(s) for the goods, Veyance is not obligated to produce, deliver or ship the goods by that estimated shipment, production, or requested date(s). Customer hereby agrees that unless Customer notifies Veyance in writing within ninety (90) calendar days of the estimated shipment date as shown on the last dated Confirmation referencing the goods, there shall be a presumption that goods conforming to the goods ordered were received by Customer.
- 11. Due to the varying location of the operations of Customer and Veyance and the locations that may be involved in the performance and documentation of an order to which these Terms and Conditions of Sale are applicable, in order to settle upon and to eliminate any doubt as to the rights of the Customer and Veyance, Customer and Veyance agree that this Confirmation shall be governed by and construed in accordance with the laws of the State of Ohio, United States of America, applicable to agreements to be performed in the State of Ohio, except that for sales or orders originating and to be performed in Canada by Canadian subsidiaries or affiliates of The Veyance, Customer and Veyance agree that this Confirmation shall be governed by and construed in accordance with the laws of the Province of Ontario, Canada, applicable to agreements to be performed in Canada. Customer and Veyance exclude the application of the United Nations Convention on Contracts for the International Sale of Goods to this Confirmation and order.



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Properties Legend:



A - Superior Abrasion Resistance



M - USMSHA Approved



NC - Non-Conductive



**F** - FDA, 3-A, & USDA



UL - Underwriter's Laboratory Approved



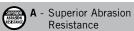
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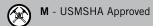


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Properties Legend:







NC - Non-Conductive



**F** - FDA, 3-A, & USDA



**UL** - Underwriter's Laboratory Approved



CUL - Underwriter's Laboratory Approved (Canada)



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| Pliovic PVC Tubing                    |            |               |                    | M                                  |              |
| Potable Water                         | F          | 79            | · ·                | 300 <b>NE</b>                      |              |
| Pressure Washer Fittings              |            | 262           | Surellile          |                                    | .237         |
| Pulp & Paper Washdown                 |            | 239           | т                  |                                    |              |
| Purple Flexwing                       |            | 49            | •                  |                                    | 127          |
| Pyroflex II Hot Air                   |            | 123           |                    |                                    |              |
| Pyroflex Hot Tar & Asphalt II         |            | 193           | _                  |                                    |              |
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| Red Flextra 150                       |            | 181           | U                  |                                    |              |
| Redwing Fuel Oil                      |            | 174           | Ultra-Grip         |                                    | 39           |
| Refueling Sensing                     |            | 150           | V                  |                                    |              |
|                                       |            |               | Vapor Boogram D    | ook                                | 170          |
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| SAE J1527 Type A2 (fuel fill)         |            | 96            |                    |                                    |              |
| Sandblast Deadman                     |            |               |                    |                                    |              |
| Sani-Wash 300                         |            |               |                    | <b>A</b>                           |              |
| Service Station Air                   |            |               | •                  |                                    |              |
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| Smooth Bore Dock 300                  |            | 168           |                    | NC                                 |              |
|                                       |            | _             |                    | NC                                 |              |
| Resist                                | _          |               | M - USMSHA Approve | $\sim$                             | tive         |
| F - FDA, 3-A, & USDA                  | (ÚĽ) u     | L - Underw    |                    | CUL - Underwriter's Laboratory     |              |
| Compliant                             |            | Lapora        | tory Approved      | Approved (Canada)                  |              |



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| Arctic Ortac Plus  |             |        | Fortress 1000   |            |         |
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| F5   |             |        | Galvanator 3000   |            |         |
| Flexsteel Service Station Air  |             |        | Gauntlet 1500   |            |         |
| Gorilla  |             |        | Gauntlet 3000   |            |         |
| Horizon 200  |             |        | Gauntlet 4500   |            |         |
| Horizon 250  |             |        | Neptune 1500  |            |         |
| Horizon 300  |             |        | Neptune 3000  |            |         |
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| Ortac 250  |             |        | Neptune 4500  |            |         |
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| Pliovic FG (FDA-3A)  |             |        | Whitewater  |            |         |
| Pliovic GS   |             |        | ······································                      |            |         |
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| Air & Multipurpose: Heavy Duty Explorer Air  |             | 20     | Plicord Blue Flour  |            |         |
|  |             |        | Plicord Brewline  |            |         |
| Explorer Plus Air  |             |        | Plicord ExtremeFlex Food Grade                              |            |         |
| Plicord Air Green 400  |             |        | Plicord Gray Food   |            |         |
| Plicord Super Rock Drill   |             |        | Plicord Wineline  |            |         |
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| Official Office and a second of the second o |             |        | Sani-Wash 300   |            |         |
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| Fabchem  |             |        | Super Sani-Wash 300   |            |         |
| Green XLPE   |             |        | Super Sam-Wash SOU  | NI         | . ** 03 |
| HI-PER   |             |        | Marina  |            |         |
| Orange Flexwing  |             |        | Marine Elevational Marine Parrier Hose SAE                  |            |         |
| Plicord ExtremeFlex Brown  |             |        | Flexshield Marine Barrier Hose SAE                          | 7940 NI    | EW 07   |
| Plicord ExtremeFlex Purple   |             |        | J1527 USCG Type A1-15 / ISO 7<br>Marine Fuel Feed Vent Hose | , 040 N    | .VV 3/  |
| Purple Flexwing  |             |        | USCG/SAE J1527 Type A2                                      |            | ΩQ      |
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Properties Legend:



A - Superior Abrasion Resistance



M - USMSHA Approved



NC - Non-Conductive



**F** - FDA, 3-A, & USDA



**UL** - Underwriter's Laboratory Approved



CUL - Underwriter's Laboratory Approved (Canada)



#### **INDUSTRIAL HOSE INDEX BY APPLICATION**

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| Plicord Dredge Sleeve  |              |
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| Pyroflex II Hot Air  |              |
| Spiraflex Mulch Blower   |              |
| Tan Flextra  |              |
| Tan Flexwing <b>F</b> 126  |              |
| Tan Softwall   |              |
| Arctic ExtremeFlex   | <i>I</i> 175 |
| Material Handling: Cement & Concrete Flextra Oilfield  |              |
| Allcrete Textile (plaster, grout & concrete)   |              |
| Allcrete Wire  |              |
| PGC Placement Textile  |              |
| Plicord Auger Arc Piling   |              |
| Plicord Gunite (tan)   |              |
| Paladin  |              |
| Mining Plicord Arctic Flexwing   |              |
| Brigade Mine   |              |
| Flextra Rock Dust  |              |
| M&P Mine Conduit   |              |
| Mine Spray   |              |
|  |              |
| Properties Legend: A - Superior Abrasion  M - USMSHA Approved  NC - Non-Conduction Resistance  | tive         |
| F - FDA, 3-A, & USDA Compliant UL - Underwriter's Laboratory Approved (Canada)   |              |



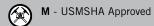
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| Water: Discharge Hose Brigade Mine Fire Engine Booster Pathfinder Garden Hose Plicord Furnace Door Plicord HD Water Discharge Plicord Versiflo 125 Plicord Water Discharge 150 Potable Water Spiraflex Black (Lay-Flat Super Duty I Spiraflex Blue (Extra Light Duty) Spiraflex Gray (Light Duty) Spiraflex Red (Medium Duty) Spiraflex Yellow (Heavy Duty) | F Hose) NE | 223<br>224<br>225<br>226<br>227<br>228<br>79<br><b>W</b> 218<br>219<br>220 | Insta-Lock Repair Kits   |              | .249<br>.250<br>.251<br>.252<br>.253<br>.254 |

Properties Legend:



A - Superior Abrasion Resistance



NC - Non-Conductive



**F** - FDA, 3-A, & USDA



**UL** - Underwriter's Laboratory Approved



CUL - Underwriter's Laboratory Approved (Canada)



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## GENERAL PURPOSE



|                                    | Page     | Superior<br>Abrasion<br>Cover | MSHA           | Non-<br>conductive | Oil<br>Resistance<br>Tube* | Oil<br>Resistance<br>Cover* | Temp<br>Range     | Thermo-<br>plastic | Rubber |
|------------------------------------|----------|-------------------------------|----------------|--------------------|----------------------------|-----------------------------|-------------------|--------------------|--------|
| Arctic Ortac®                      | 18       |                               |                |                    | А                          | А                           | -65°F to<br>180°F |                    | Yes    |
| Arctic Ortac® Plus                 | 19       |                               |                |                    | А                          | А                           | -65°F to<br>180°F |                    | Yes    |
| Braidair™                          | 26       |                               |                |                    | А                          | В                           | -20°F to<br>190°F |                    | Yes    |
| F5™                                | 22       |                               |                |                    | В                          | В                           | -40°F to<br>158°F | Yes                |        |
| Flexsteel®<br>Service Station Air  | 20       |                               |                |                    | В                          | В                           | -20°F to<br>190°F |                    | Yes    |
| Gorilla®                           | 11       | Yes                           | Yes            | Yes                | А                          | А                           | -20°F to<br>190°F |                    | Yes    |
| Horizon® 200                       | 12-13    |                               |                |                    | С                          | С                           | -40°F to<br>190°F |                    | Yes    |
| Horizon® 250                       | 12-13    |                               |                |                    | С                          | С                           | -40°F to<br>190°F |                    | Yes    |
| Horizon® 300                       | 12-13    |                               |                |                    | С                          | С                           | -40°F to<br>190°F |                    | Yes    |
| Mil A-A-59565<br>Military Air Hose | 17       |                               |                |                    | С                          | С                           | -40°F to<br>190°F |                    |        |
| Ortac® 250                         | 14-15    | Yes                           |                | Yes                | А                          | А                           | -20°F to<br>190°F |                    | Yes    |
| Ortac® 300                         | 14-15    | Yes                           |                | Yes                | А                          | А                           | -20°F to<br>190°F |                    | Yes    |
| Ortac® 400                         | 14-15    | Yes                           | Yellow<br>only | Yes                | А                          | А                           | -20°F to<br>190°F |                    | Yes    |
| Pliovic® FG (FDA-3A)               | 78       |                               |                | Yes                | В                          | В                           | -10°F to<br>158°F | Yes                |        |
| Pliovic® GS                        | 24-25    |                               |                | Yes                | В                          | В                           | -10°F to<br>158°F | Yes                |        |
| Pliovic® Plus 250                  | 24-25    |                               |                | Yes                | В                          | В                           | -10°F to<br>158°F | Yes                |        |
| Pliovic® PVC Tubing                | 23       |                               |                |                    | В                          | В                           | -10°F to<br>158°F |                    |        |
| Service Station Air                | 21       |                               |                |                    | С                          | С                           | -40°F to<br>190°F |                    | Yes    |
| Wingfoot® 200                      | 16       |                               |                | Yes                | А                          | В                           | -20°F to<br>190°F |                    | Yes    |
| Wingfoot® 300                      | 16       |                               |                | Yes                | А                          | В                           | -20°F to<br>190°F |                    | Yes    |
| *Based on RMA oil classific        | ation Fo | r more infor                  | mation se      | ee Annendix C      |                            |                             |                   |                    |        |

<sup>\*</sup>Based on RMA oil classification. For more information, see Appendix C.



### **GORILLA®**







#### **Product Specifications**

APPLICATION:

A premium-quality, multipurpose industrial hose with a wide range of applications in factories, construction, agriculture, quarries, mines, railroads, the oil and gas industry, and shipbuilding. All sizes are rated at 500 psi (3.4 Mpa) maximum working pressure. Non-conductive, minimum electrical resistance greater than one (1) megaohm per inch of hose length at 1000 Volts DC.

CONSTRUCTION

TUBE: Nitrile synthetic rubber, RMA Class A (High Oil Resistance)

**COVER:** Yellow Carbryn™ synthetic rubber, RMA Class A (High Oil Resistance) MSHA approved

**REINFORCEMENT:** Spiral Flexten® yarn, 2" is braided synthetic yarn

**TEMPERATURE:** -20°F to 190°F (-29°C to 88°C)

**PACKAGING:** 3/16" – 3/4" 500' reels, maximum 3 pieces, 50' increments

1" 450' reels, maximum 3 pieces, 50' increments
1¼" 250'-400' reels, maximum 3 pieces, 50' increments
1½" 150'-300' reels, maximum 3 pieces, 50' increments
2" 200' carton, maximum 3 pieces, 50' increments

Coupled assemblies available: 1/4", 3/8", 1/2", and 3/4".

**BRANDING:** Example: Gorilla® 1" (25.4 mm) 500 psi. Made in USA. Goodyear.®

Flame Resistant USMSHA No. 2G-14C/14

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 569-035 536-446 (2")

|     |   | <br>_      |   |
|-----|---|------------|---|
| C r | R | $-\Lambda$ | ശ |
| п   | ж | •          | • |
| ш   |   | <br>7.     |   |

| ID   |      | NOM. OD |      | MAX. WP |      | WEIGHT  |        |
|------|------|---------|------|---------|------|---------|--------|
| in.  | mm.  | in.     | mm.  | psi     | Мра  | lb./ft. | kg./m. |
| 3/16 | 4.8  | 0.47    | 11.9 | 500     | 3.45 | 0.08    | 0.12   |
| 1/4  | 6.4  | 0.61    | 15.5 | 500     | 3.45 | 0.17    | 0.25   |
| 5/16 | 7.9  | 0.69    | 17.5 | 500     | 3.45 | 0.20    | 0.30   |
| 3/8  | 9.5  | 0.73    | 18.6 | 500     | 3.45 | 0.22    | 0.33   |
| 1/2  | 12.7 | 0.89    | 22.6 | 500     | 3.45 | 0.28    | 0.42   |
| 5/8  | 15.9 | 1.06    | 26.9 | 500     | 3.45 | 0.35    | 0.52   |
| 3/4  | 19.1 | 1.19    | 30.2 | 500     | 3.45 | 0.41    | 0.61   |
| 1    | 25.4 | 1.50    | 37.8 | 500     | 3.45 | 0.58    | 0.86   |
| 11/4 | 31.8 | 1.77    | 45.6 | 500     | 3.45 | 0.79    | 1.18   |
| 1½   | 38.1 | 2.04    | 51.8 | 500     | 3.45 | 0.86    | 1.27   |
| 2    | 50.8 | 2.62    | 66.6 | 500     | 3.45 | 1.22    | 1.82   |



AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WAI ER Sischarge

& Suction Discharge Washdown

WELDING

COUPLING SYSTEMS

AIR & MULTIPURPOSE General Purpose

Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### HORIZON®



#### **Product Specifications**

**APPLICATION:** An economical air and water hose, Horizon® is for a wide range of industrial, construction

and agricultural applications. Available in 200, 250, and 300 PSI working pressures.

CONSTRUCTION

TUBE: Versigard® synthetic rubber, RMA Class C (Limited Oil Resistance)

**COVER:** Black, Red, Yellow, Green or Blue Versigard® synthetic rubber

**REINFORCEMENT:** Spiral synthetic yarn, 2" is braided

TEMPERATURE: -40°F to 190°F (-40°C to 88°C)

PACKAGING: 3/16"-3/4" 500' reels, maximum 3 pieces, 50' increments 1" 450' reels, maximum 3 pieces, 50' increments

11/4" 400' reels, maximum 3 pieces, 50' increments 11/4" 400' reels, maximum 3 pieces, 50' increments 11/2" 300' reels, maximum 3 pieces, 50' increments 2" 200', cartons, maximum 3 pieces, 50' increments Coupled assemblies available in 1/4", 3/8", 1/2", and 3/4" in red.

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**BRANDING:** Example: 1/2" Horizon® Goodyear® 300 psi WP

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

ORDER CODES: See next page.

Versigard° is a registered trademark of The Goodyear Tire & Rubber Company.



| HORIZON <sup>®</sup> | 200  | ORDE    |      | )35 (2" black)<br>)11 (red) | 536-040 (2" re<br>569-038 (yello | •       | 9-009 (black)<br>9-547 (blue) |
|----------------------|------|---------|------|-----------------------------|----------------------------------|---------|-------------------------------|
| 1                    | D    | NOM. OD |      | MAX. WP                     |                                  | WEIGHT  |                               |
| in.                  | mm.  | in.     | mm.  | psi                         | Мра                              | lb./ft. | kg./m.                        |
| 3/16                 | 4.8  | 0.44    | 11.2 | 200                         | 1.38                             | 0.08    | 0.12                          |
| 1/4                  | 6.4  | 0.50    | 12.7 | 200                         | 1.38                             | 0.09    | 0.13                          |
| 5/16                 | 7.9  | 0.58    | 14.7 | 200                         | 1.38                             | 0.12    | 0.18                          |
| 3/8                  | 9.5  | 0.67    | 17.0 | 200                         | 1.38                             | 0.15    | 0.22                          |
| 1/2                  | 12.7 | 0.81    | 20.6 | 200                         | 1.38                             | 0.20    | 0.30                          |
| 5/8                  | 15.9 | 0.97    | 24.6 | 200                         | 1.38                             | 0.27    | 0.40                          |
| 3/4                  | 19.1 | 1.12    | 28.5 | 200                         | 1.38                             | 0.34    | 0.51                          |
| 1                    | 25.4 | 1.44    | 36.8 | 200                         | 1.38                             | 0.54    | 0.80                          |
| 11/4                 | 31.8 | 1.73    | 44.0 | 200                         | 1.38                             | 0.75    | 1.12                          |
| 1½                   | 38.1 | 1.98    | 50.3 | 200                         | 1.38                             | 0.86    | 1.28                          |
| 2                    | 50.8 | 2.50    | 63.5 | 200                         | 1.38                             | 1.16    | 1.73                          |

| HODIZON® OFO |      | 10 (black) 569-012 (red)<br>666 (green) 569-548 (blue) |      | 569-039 (yellow) |      |         |        |  |
|--------------|------|--|------|------------------|------|---------|--------|--|
| I            | D    | NOM. OD MAX  |      | NOM. OD MAX. WP  |      | . WP    | WEIGHT |  |
| in.          | mm.  | in.  | mm.  | psi              | Мра  | lb./ft. | kg./m. |  |
| 1/4          | 6.4  | 0.53   | 13.5 | 250              | 1.72 | 0.11    | 0.16   |  |
| 5/16         | 7.9  | 0.59   | 15.0 | 250              | 1.72 | 0.13    | 0.19   |  |
| 3/8          | 9.5  | 0.70   | 17.8 | 250              | 1.72 | 0.17    | 0.25   |  |
| 1/2          | 12.7 | 0.84   | 21.3 | 250              | 1.72 | 0.22    | 0.33   |  |
| 5/8          | 15.9 | 0.98   | 24.9 | 250              | 1.72 | 0.27    | 0.40   |  |
| 3/4          | 19.1 | 1.14   | 29.0 | 250              | 1.72 | 0.35    | 0.52   |  |

| HORIZON® | 300  | ORDER CODES: 569-516 (yello |      | 16 (yellow) | 569-557 (red) | 569-560 (green) |        |
|----------|------|-----------------------------|------|-------------|---------------|-----------------|--------|
| 1        | D    | NOM. OD                     |      | MAX. WP     |               | WEIGHT          |        |
| in.      | mm.  | in.                         | mm.  | psi         | Мра           | lb./ft.         | kg./m. |
| 1/4      | 6.4  | 0.53                        | 13.5 | 300         | 2.07          | 0.10            | 0.15   |
| 3/8      | 9.5  | 0.70                        | 17.8 | 300         | 2.07          | 0.17            | 0.25   |
| 1/2      | 12.7 | 0.84                        | 21.3 | 300         | 2.07          | 0.22            | 0.33   |
| 3/4      | 19.1 | 1.15                        | 29.2 | 300         | 2.07          | 0.37            | 0.55   |
| 1        | 25.4 | 1.48                        | 37.3 | 300         | 2.07          | 0.58            | 0.86   |

GOOD YEAR.
ENGINEERED PRODUCTS

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

AIR & MULTIPURPOSE General Purpose

Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

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MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **ORTAC®**



#### **Product Specifications**



APPLICATION: Ortac® (Oil Resistant Tube and Cover) is our most popular premium-quality multipurpose

hose. Used in the most abusive industrial applications, Ortac will handle air, oil, water, kerosene and some chemicals. Non-conductive, minimum electrical resistance greater than one (1) megohm per inch of hose length; at 1000 Volts DC. Available in 250, 300 and 400 PSI working pressures. NOTE: Ortac® 400 Yellow is USMSHA approved.

CONSTRUCTION

TUBE: Nitrile synthetic rubber, RMA Class A (high oil resistance)

**COVER:** Red or Yellow Carbryn<sup>™</sup> synthetic rubber, RMA Class A (high oil resistance)

**REINFORCEMENT:** Spiral synthetic yarn, 2" is braided

TEMPERATURE: -20°F to 190°F (-29°C to 88°C)

**PACKAGING:** 3/16"-3/4" 500' reels, maximum 3 pieces, 50' increments

1" 450' reels, maximum 3 pieces, 50' increments 1¼" 400' reels, maximum 3 pieces, 50' increments 1½" 300' reels, maximum 3 pieces, 50' increments 2" 200' cartons, maximum 3 pieces, 50' increments

**BRANDING:** Example: 11/2" (38.1 mm) Ortac® 300 psi WP. Made in USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

ORDER CODES: See next page.



| ORTAC® 2 | 50   | ORDE    | <b>RDER CODES:</b> 569-058 (1/4" - 11/2") red 536-465 (2") red 536-010 (2") black |         |      |         |        |  |
|----------|------|---------|---|---------|------|---------|--------|--|
| I        | D    | NOM. OD |   | MAX. WP |      | WEIGHT  |        |  |
| in.      | mm.  | in.     | mm.   | psi     | Мра  | lb./ft. | kg./m. |  |
| 1/4      | 6.4  | 0.53    | 13.5  | 250     | 1.72 | 0.09    | 0.13   |  |
| 5/16     | 7.9  | 0.62    | 17.5  | 250     | 1.72 | 0.14    | 0.21   |  |
| 3/8      | 9.5  | 0.69    | 17.5  | 250     | 1.72 | 0.15    | 0.22   |  |
| 1/2      | 12.7 | 0.84    | 21.3  | 250     | 1.72 | 0.20    | 0.30   |  |
| 5/8      | 15.9 | 1.00    | 25.4  | 250     | 1.72 | 0.26    | 0.39   |  |
| 3/4      | 19.1 | 1.14    | 29.0  | 250     | 1.72 | 0.34    | 0.51   |  |
| 1        | 25.4 | 1.47    | 37.3  | 250     | 1.72 | 0.51    | 0.76   |  |
| 11/4     | 31.8 | 1.77    | 45.2  | 250     | 1.72 | 0.70    | 1.04   |  |
| 1½       | 38.1 | 2.08    | 52.8  | 250     | 1.72 | 0.96    | 1.43   |  |
| 2        | 50.8 | 2.50    | 63.5  | 200     | 1.37 | 1.08    | 1.61   |  |

| ORDER CODES: 569-059 (re |
|--------------------------|
|--------------------------|

ODTAC® 200

| URIAL 3 | UU   |         |      |     |      |         |        |  |
|---------|------|---------|------|-----|------|---------|--------|--|
| ID      |      | NOM. OD |      | MAX | . WP | WEI     | WEIGHT |  |
| in.     | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |  |
| 3/16    | 4.8  | 0.44    | 11.8 | 300 | 2.07 | 0.07    | 0.10   |  |
| 1/4     | 6.4  | 0.61    | 15.7 | 300 | 2.07 | 0.14    | 0.21   |  |
| 5/16    | 7.9  | 0.68    | 17.3 | 300 | 2.07 | 0.16    | 0.24   |  |
| 3/8     | 9.5  | 0.73    | 18.6 | 300 | 2.07 | 0.18    | 0.27   |  |
| 1/2     | 12.7 | 0.89    | 22.6 | 300 | 2.07 | 0.25    | 0.37   |  |
| 5/8     | 15.9 | 1.06    | 26.9 | 300 | 2.07 | 0.35    | 0.52   |  |
| 3/4     | 19.1 | 1.19    | 30.2 | 300 | 2.07 | 0.40    | 0.60   |  |
| 1       | 25.4 | 1.50    | 38.1 | 300 | 2.07 | 0.59    | 0.88   |  |
| 11/4    | 31.8 | 1.81    | 46.0 | 300 | 2.07 | 0.76    | 1.13   |  |
| 1½      | 38.1 | 2.08    | 52.8 | 300 | 2.07 | 0.88    | 1.31   |  |

ORDER CODES: 569-065 (yellow) (USMSHA rated) 569-066 (red)

| ORTAC® 400  ORDER CODES: 569-065 (yellow) (USMSHA rated) 569-066 (red) |      |      |          |     |      |         |        |  |
|--|------|------|----------|-----|------|---------|--------|--|
| ı  | ID   |      | M. OD MA |     | . WP | WEIGHT  |        |  |
| in.  | mm.  | in.  | mm.      | psi | Мра  | lb./ft. | kg./m. |  |
| 1/4  | 6.4  | 0.61 | 15.7     | 400 | 2.76 | 0.16    | 0.24   |  |
| 3/8  | 9.5  | 0.73 | 18.8     | 400 | 2.76 | 0.20    | 0.30   |  |
| 1/2  | 12.7 | 0.89 | 22.8     | 400 | 2.76 | 0.26    | 0.39   |  |
| 3/4  | 19.1 | 1.18 | 30.0     | 400 | 2.76 | 0.41    | 0.61   |  |
| 1  | 25.4 | 1.50 | 38.1     | 400 | 2.76 | 0.61    | 0.91   |  |



AIR & **MULTIPURPOSE General Purpose Heavy Duty** Push-on

> CHEMICAL **TRANSFER**

**CLEANING EQUIPMENT** 

> FOOD Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER Suction & Washdown

WELDING

COUPLING **SYSTEMS** 

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **WINGFOOT®**



### **Product Specifications**

**APPLICATION:** A good-quality, economical general purpose hose for industrial air service, compressor lines, pneumatic tools, low-pressure spray and many other applications where the need for oil resistance is moderate. Non-conductive, minimum electrical resis-

tance greater than one (1) megohm per inch of length of hose at 1000 V DC. Available in 200 and 300 PSI working pressures.

CONSTRUCTION

TUBE: Nitrile synthetic rubber, RMA Class A (high oil resistance)

**COVER:** Red, Blue, or Black Chemivic™ synthetic rubber, RMA Class B (medium oil resistance)

**REINFORCEMENT:** Spiral synthetic yarn  $(3/16"-1\frac{1}{2}")$ , braided synthetic yarn (2")

TEMPERATURE: -20°F to 190°F (-29°C to 88°C)

**PACKAGING:** 3/16"-3/4" 500' reels, max. 3 pieces, 50' increments 11/4" 400' reels, max. 3 pieces, 50' increments

450' reels, max. 3 pieces, 50' increments 1½" 300' reels, max. 3 pieces, 50' increments

Coupled assemblies available in 1/4", 3/8", and 1/2" in red.

BRANDING: Example: Wingfoot® Nonconductive 1/2" (12.7 mm) 200 psi WP. Made in USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

ORDER CODES: See below.

| WINGFOO' | T <sup>®</sup> 200 | ORDER CODES: 569- |         | 005 (black) 569-007 (red) |         | ) 569-036 (blue) |        |  |
|----------|--------------------|-------------------|---------|---------------------------|---------|------------------|--------|--|
| ı        | ID                 |                   | NOM. OD |                           | MAX. WP |                  | WEIGHT |  |
| in.      | mm.                | in.               | mm.     | psi                       | Мра     | lb./ft.          | kg./m. |  |
| 3/16     | 4.8                | 0.44              | 11.2    | 200                       | 1.38    | 0.07             | 0.10   |  |
| 1/4      | 6.4                | 0.53              | 13.5    | 200                       | 1.38    | 0.10             | 0.15   |  |
| 5/16     | 7.9                | 0.63              | 16.0    | 200                       | 1.38    | 0.14             | 0.21   |  |
| 3/8      | 9.5                | 0.69              | 17.5    | 200                       | 1.38    | 0.15             | 0.22   |  |
| 1/2      | 12.7               | 0.84              | 21.3    | 200                       | 1.38    | 0.21             | 0.31   |  |
| 5/8      | 15.9               | 1.00              | 25.4    | 200                       | 1.38    | 0.27             | 0.40   |  |
| 3/4      | 19.1               | 1.13              | 28.7    | 200                       | 1.38    | 0.38             | 0.57   |  |
| 1        | 25.4               | 1 47              | 37 3    | 200                       | 1 38    | 0.58             | 0.86   |  |

**WINGFOOT® 300**ORDER CODES: 569-006 (black) 569-008 (red 3/16" - 1½") 536-037 (red 2")

| II   | ID   |      | NOM. OD |     | MAX. WP |         | GHT    |
|------|------|------|---------|-----|---------|---------|--------|
| in.  | mm.  | in.  | mm.     | psi | Мра     | lb./ft. | kg./m. |
| 3/16 | 4.8  | 0.44 | 11.2    | 200 | 1.38    | 0.07    | 0.10   |
| 1/4  | 6.4  | 0.54 | 13.7    | 300 | 2.07    | 0.14    | 0.21   |
| 5/16 | 7.9  | 0.64 | 16.3    | 300 | 2.07    | 0.18    | 0.27   |
| 3/8  | 9.5  | 0.69 | 17.5    | 300 | 2.07    | 0.19    | 0.28   |
| 1/2  | 12.7 | 0.86 | 21.8    | 300 | 2.07    | 0.26    | 0.39   |
| 5/8  | 15.9 | 1.02 | 25.9    | 300 | 2.07    | 0.33    | 0.49   |
| 3/4  | 19.1 | 1.19 | 30.2    | 300 | 2.07    | 0.42    | 0.63   |
| 1    | 25.4 | 1.50 | 38.1    | 300 | 2.07    | 0.62    | 0.92   |
| 11/4 | 31.8 | 1.77 | 45.6    | 250 | 1.72    | 0.84    | 1.25   |
| 1½   | 38.1 | 2.08 | 53.2    | 250 | 1.72    | 1.01    | 1.50   |
| 2    | 50.8 | 2.50 | 63.5    | 300 | 2.07    | 1.02    | 1.52   |



### MIL A-A-59565 MILITARY AIR HOSE



**Product Specifications** 

APPLICATION: This commercial item description (CID) covers rubber hose and rubber hose assemblies with yarn,

cord or fabric reinforcement intended for light-duty air applications.

The General Services Administration has authorized the use of this commercial item description for

all federal agencies

5:1 Safety Factor.

CONSTRUCTION

TUBE: Versigard® EPDM, RMA Classs C Oil Resistance

**COVER:** Versigard EPDM, RMA Classs C Oil Resistance

**REINFORCEMENT:** 2-spiral synthetic cord, 1/4" ID through 5/8" ID

4-spiral synthetic cord, 3/4" ID through 11/4" ID

**TEMPERATURE:** -40°F to 190°F (-40°C to 88°C)

**PACKAGING:** Bulk reels (Alternative packaging specs available upon request)

**BRANDING:** Example: Pneumatic A-A-59565 Goodyear® 200 PSI WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure

MATERIAL CODE: 569-536

MIL A-A-59565 MILITARY AIR HOSE

| SIZE | ID   |      | NOM. OD |      | MAX | WP   | WEIGHT   |        |
|------|------|------|---------|------|-----|------|----------|--------|
| CODE | in.  | mm.  | in.     | mm.  | psi | Мра  | lbs./ft. | kg./m. |
| 04   | 1/4  | 6.4  | 0.55    | 13.9 | 200 | 1.38 | 0.10     | 0.15   |
| 06   | 3/8  | 9.5  | 0.75    | 19.1 | 200 | 1.38 | 0.17     | 0.25   |
| 07   | 7/16 | 11.1 | 0.83    | 21.2 | 150 | 1.03 | 0.21     | 0.31   |
| 08   | 1/2  | 12.7 | 0.87    | 22.2 | 150 | 1.03 | 0.21     | 0.31   |
| 10   | 5/8  | 15.9 | 1.00    | 25.4 | 125 | 0.86 | 0.25     | 0.37   |
| 12   | 3/4  | 19.1 | 1.14    | 29.0 | 125 | 0.86 | 0.35     | 0.52   |
| 16   | 1    | 25.4 | 1.52    | 38.5 | 125 | 0.86 | 0.58     | 0.86   |
| 20   | 11/4 | 31.8 | 1.75    | 44.4 | 100 | 0.69 | 0.63     | 0.94   |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

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MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# ARCTIC ORTAC®



# NEW

#### **Product Specifications**

**APPLICATION:** Arctic Ortac<sup>®</sup> (Oil Resistant Tube and Cover) is our most popular cold temperature multipurpose hose. For use with air, water, oil, kerosene, fuel oil and some chemical applications.

CONSTRUCTION

TUBE: Nitrile synthetic rubber, RMA Class A (High Oil Resistance)

COVER: Neoprene, RMA Class A (High Oil Resistance)

**REINFORCEMENT:** One textile braid

TEMPERATURE: -65°F to 180°F (-54°C to 82°C)

PACKAGING: 500' reels, maximum 3 pieces, 50' minimum length

BRANDING: Example: 9.5mm 3/8" Arctic Ortac® Goodyear® 2.1 MPA/300 PSI. Made In USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and

coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 536-276

#### **ARCTIC ORTAC®**

| ID   |      | NOM. OD |      | MAX | . WP | WEIGHT  |        |
|------|------|---------|------|-----|------|---------|--------|
| in.  | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |
| 1/4  | 6.4  | 0.63    | 16.0 | 300 | 2.07 | 0.14    | 0.21   |
| 3/8  | 9.5  | 0.75    | 19.1 | 300 | 2.07 | 0.19    | 0.28   |
| 1/2  | 12.7 | 0.91    | 23.1 | 300 | 2.07 | 0.25    | 0.37   |
| 3/4  | 19.1 | 1.18    | 30.0 | 300 | 2.07 | 0.36    | 0.54   |
| 1    | 25.4 | 1.50    | 38.1 | 300 | 2.07 | 0.58    | 0.86   |
| 11/4 | 31.8 | 1.80    | 45.7 | 300 | 2.07 | 0.74    | 1.10   |
| 13/8 | 34.9 | 1.97    | 50.0 | 300 | 2.07 | 0.92    | 1.37   |
| 1½   | 38.1 | 2.09    | 53.1 | 300 | 2.07 | 1.01    | 1.50   |



# ARCTIC ORTAC® PLUS



AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM VEYANCE

WATER
Discharge
Suction &
Discharge
Nashdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **Product Specifications**

APPLICATION: A low-temperature hose construction for air, water, oil, kerosene, fuel oil and some chemical

operations where temperatures fall as low as -65°F (-54°C).

CONSTRUCTION

TUBE: Black low-temp, ECO oil-resistant synthetic rubber, RMA Class A (High Oil Resistance)

COVER: Black ultra-low temperature, ECO oil resistant synthetic rubber (with a blue stripe), RMA Class A

(High Oil Resistance)

REINFORCEMENT: One textile braid

**TEMPERATURE:** -65°F to 180°F (-54°C to 82°C)

PACKAGING: 500' reels, maximum 3 pieces, 50' minimum length

BRANDING: Example: 9.5mm 3/8" Arctic Ortac® Plus 2.1 MPA/300 PSI. Goodyear.® Made In USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and

coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 536-275

#### **ARCTIC ORTAC® PLUS**

| 1   | ID   |      | 1. OD | MAX | . WP | WEIGHT  |        |  |  |
|-----|------|------|-------|-----|------|---------|--------|--|--|
| in. | mm.  | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. |  |  |
| 1/4 | 6.4  | 0.63 | 16.0  | 300 | 2.07 | 0.16    | 0.22   |  |  |
| 3/8 | 9.5  | 0.75 | 19.1  | 300 | 2.07 | 0.20    | 0.28   |  |  |
| 1/2 | 12.7 | 0.91 | 23.1  | 300 | 2.07 | 0.27    | 0.37   |  |  |
| 3/4 | 19.1 | 1.18 | 30.0  | 300 | 2.07 | 0.40    | 0.54   |  |  |
| 1   | 25.4 | 1.50 | 38.1  | 300 | 2.07 | 0.57    | 0.86   |  |  |



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

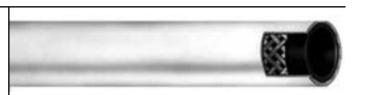
WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### FLEXSTEEL® SERVICE STATION AIR



#### **Product Specifications**

**APPLICATION:** For tire inflation service from towers, reels, or curb connections.

CONSTRUCTION

**TUBE:** Nitrile synthetic rubber, RMA Class B (medium/high oil resistance)

**COVER:** Red or Black nitrile synthetic rubber, abrasion- and oil-resistant, RMA Class B

(medium/high oil resistance)

**REINFORCEMENT:** Braided (1) steel wire braid

TEMPERATURE: -20°F to 190°F (-29°C to 88°C)

**PACKAGING:** 500' reels, maximum 3 pieces, 25' minimum

**BRANDING:** Example: Goodyear® 1/4" Flexsteel® Service Station Air. Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 539-078 (red) 539-097 (black)

#### FLEXSTEEL® SERVICE STATION AIR

| ID  |     | NOM. OD |      | MAX | . WP | WEIGHT  |        |
|-----|-----|---------|------|-----|------|---------|--------|
| in. | mm. | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |
| 1/4 | 6.4 | 0.61    | 15.5 | 250 | 1.72 | 0.18    | 0.28   |
| 3/8 | 9.5 | 0.72    | 18.3 | 250 | 1.72 | 0.23    | 0.34   |



### SERVICE STATION AIR



### **Product Specifications**

**APPLICATION:** For general air line service stations, automobile repair shops, garages, etc.

CONSTRUCTION

**TUBE:** Versigard® synthetic rubber, RMA Class C (Limited Oil Resistance)

**COVER:** Versigard synthetic rubber (red)

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE:** -40°F to 190°F (-40°C to 88°C)

**PACKAGING:** 500' reels, maximum 3 pieces, 50' increments

**BRANDING:** Example: Service Station Air. Made in the USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 569-018

#### **SERVICE STATION AIR**

| ID  |      | NOM. OD |       | MAX. WP |      | WEIGHT  |        |
|-----|------|---------|-------|---------|------|---------|--------|
| in. | mm.  | in.     | mm.   | psi     | Мра  | lb./ft. | kg./m. |
| 1/4 | 6.35 | 0.59    | 14.99 | 250     | 1.72 | 0.16    | 0.24   |
| 3/8 | 9.53 | 0.71    | 18.03 | 250     | 1.72 | 0.21    | 0.31   |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### F5<sup>™</sup> AIR HOSE



#### **Product Specifications**

APPLICATION: A hybrid thermoplastic hose that provides durability and flexibility, is lightweight and has

a low drag resistance. F5<sup>™</sup> is non-marking, oil resistant and performs well under cold temperatures to -40°F. This 300 PSI hose is designed for a variety of pneumatic applications

in industries such as construction and manufacturing.

CONSTRUCTION

**TUBE:** Blue Flexible TPE, RMA Class B (medium oil resistance)

COVER: Matte Blue Flexible TPE, RMA Class B (medium oil resistance)

**REINFORCEMENT:** Polyester yarn

**TEMPERATURE**: -40°F to 158°F (-40°C to 70°C)

**PACKAGING:** 25', 50', 100' coils or 750' reels

**BRANDING:** Example: F5<sup>™</sup> 300 PSI. Made in USA. Goodyear®

**COUPLINGS:** MxM NPT for coupled assemblies

ORDER CODES: 540-438 (blue)

#### F5™ AIR HOSE

| ID   |      | NOM. OD |      | MAX. WP |      | WEIGHT  |        |
|------|------|---------|------|---------|------|---------|--------|
| in.  | mm.  | in.     | mm.  | psi     | Мра  | lb./ft. | kg./m. |
| 1/4  | 6.6  | .50     | 11.5 | 300     | 2.07 | 0.06    | 0.09   |
| 5/16 | 7.9  | .59     | 15.0 | 300     | 2.07 | 0.09    | 0.15   |
| 3/8  | 9.8  | .64     | 16.2 | 300     | 2.07 | 0.10    | 0.16   |
| 1/2  | 12.7 | .81     | 20.0 | 300     | 2.07 | 0.16    | 0.24   |
| 3/4  | 18.9 | 1.11    | 28.1 | 300     | 2.07 | 0.26    | 0.36   |
| 1    | 25.4 | 1.37    | 34.8 | 200     | 1.38 | 0.35    | 0.52   |



# PLIOVIC® PVC TUBING



AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL

HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

Discharge Suction & Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

#### **Product Specifications**

APPLICATION: The new full line of domestically manufactured Pliovic® PVC Food and Industrial Tubing offers Class B oil/chemical resistance at a wide temperature range. Pliovic PVC Tubing conforms to USDA, 3-A Sanitary and FDA Standards and can be used for transmission of raw and pasteurized milk and other high content dairy items. Pliovic PVC tubing can also be used in industrial applications such as air lines, chemical tubing for transfer of chemical products, fuel and

lubricant tubing for non-automotive applications, laboratory equipment, irrigation tubing for weep irrigation of crops, telecommunications tubing (ducts), water and fluid lines (drain lines, spray tubing, etc.), glass and window wash systems, cable insulation, abrasion-resistant sleeving, analytical instruments, aeration applications and more.

CONSTRUCTION

TUBE: Clear PVC (FDA, 3-A and USDA compliant)

**COVER:** Clear PVC

**TEMPERATURE:** -10°F to 158°F ( -23°C to 70°C)

PACKAGING: Coiled

BRANDING: Not branded

NON-STOCK/SIZES: Contact your Goodyear Engineered Products representative for special production run minimum

requirements.

**ORDER CODES:** 540-442

#### PLIOVIC® PVC TUBING

| II             | D    | NOM   | I. OD | MAX | . WP | WEI     | GHT    |
|----------------|------|-------|-------|-----|------|---------|--------|
| in.            | mm.  | in.   | mm.   | psi | Мра  | lb./ft. | kg./m. |
| 1/16           | 1.6  | 0.126 | 3.2   | 60  | .413 | 0.005   | 0.0074 |
| 3/32           | 2.4  | 0.157 | 4.0   | 42  | .289 | 0.006   | 0.0089 |
| 1/8            | 3.2  | 0.189 | 4.8   | 44  | .303 | 0.008   | 0.0119 |
| 3/16           | 4.8  | 0.311 | 7.9   | 55  | .379 | 0.025   | 0.0372 |
| 1/4            | 6.4  | 0.437 | 11.1  | 60  | .413 | 0.052   | 0.0774 |
| 3/8            | 9.5  | 0.559 | 14.2  | 40  | .256 | 0.070   | 0.1042 |
| 7/16           | 11.1 | 0.681 | 17.3  | 50  | .344 | 0.110   | 0.1637 |
| 9/16           | 14.3 | 0.748 | 19.0  | 40  | .275 | 0.098   | 0.1458 |
| 5/8            | 15.9 | 0.870 | 22.1  | 40  | .275 | 0.148   | 0.2202 |
| 11/16          | 17.5 | 1.000 | 25.4  | 40  | .275 | 0.213   | 0.3169 |
| 7/8            | 22.2 | 1.120 | 28.4  | 30  | .206 | 0.197   | 0.2931 |
| 1              | 25.4 | 1.378 | 35.0  | 45  | .310 | 0.376   | 0.5595 |
| $1\frac{1}{4}$ | 31.8 | 1.630 | 38.2  | 31  | .213 | 0.291   | 0.4340 |
| 13/8           | 34.9 | 1.750 | 44.5  | 28  | .193 | 0.495   | 0.7366 |
| 11/2           | 38.1 | 1.880 | 47.7  | 26  | .179 | 0.535   | 0.7961 |
| 13/4           | 44.5 | 2.000 | 50.7  | 16  | .110 | 0.383   | 0.5699 |
| 2              | 50.8 | 0.934 | 63.4  | 35  | .241 | 0.934   | 1.3898 |



AIR & MULTIPURPOSE General Purpose

Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfe

Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **PLIOVIC®**



#### **Product Specifications**



**APPLICATION:** A lightweight, economical general purpose hose for carrying air, water and many spray

solutions. Pliovic® is suitable for a wide range of industrial, construction, agricultural hand sprayers and many multipurpose applications. Non-conductive, minimum electrical resistance greater than one (1) megohm per inch of hose length at 1000 Volts DC. Available in Pliovic® GS construction or a thick cover, Pliovic® Plus construction. Non-marking cover.

CONSTRUCTION

TUBE: Black Pliovic®, RMA Class B (Medium Oil Resistance)

**COVER:** Pliovic®, smooth finish, RMA Class B (Medium Oil Resistance)

**REINFORCEMENT:** Spiral synthetic yarn

TEMPERATURE: -10°F to 158°F (-23°C to 70°C) for GS and Pliovic® Plus 250

**PACKAGING:** 1/4"-1/2" 750' reels, maximum 3 pieces, 50' increments

5/8" 500' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 3/4" 450' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 1" 400' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 1½"-2" 300' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increments (Pliovic® Plus 250 Only) 2000' reels, maximum 3 pieces, 50' increme

Coupled assemblies available upon request. Contact hose marketing for availability on cut,

coiled, and tied hose lengths.

**BRANDING:** Example: Pliovic® GS 3/8" ID (9.5 mm) 250 psi WP. Made in USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

ORDER CODES: See next page.



| PLIOVIC® GS |      |         | ORDER CODES | : 540-350 (blu<br>540-358 (gr | •       | 57 (yellow)<br>96 (red) | 540-472 (black) |
|-------------|------|---------|-------------|-------------------------------|---------|-------------------------|-----------------|
| ID          |      | NOM. OD |             | MAX                           | MAX. WP |                         | IGHT            |
| in.         | mm.  | in.     | mm.         | psi                           | Мра     | lb./ft.                 | kg./m.          |
| 1/4         | 6.4  | 0.45    | 11.4        | 300                           | 2.07    | 0.06                    | 0.09            |
| 5/16        | 7.9  | 0.59    | 15.0        | 300                           | 2.07    | 0.11                    | 0.16            |
| 3/8         | 9.5  | 0.60    | 15.2        | 300                           | 2.07    | 0.09                    | 0.13            |
| 1/2         | 12.7 | 0.78    | 19.8        | 300                           | 2.07    | 0.15                    | 0.22            |

| I | PLIOVIC <sup>®</sup> | PLUS 250 |      | ORDER CODES: | 540-201 (rec<br>540-233 (bla | •    | 27 (blue)<br>57 (yellow) | 540-232 (green) |
|---|----------------------|----------|------|--------------|------------------------------|------|--------------------------|-----------------|
|   |                      | ID       | NOM  | 1. OD        | MAX                          | . WP | WEI                      | GHT             |
|   | in.                  | mm.      | in.  | mm.          | psi                          | Мра  | lb./ft.                  | kg./m.          |
|   | 1/4                  | 6.4      | 0.50 | 12.7         | 250                          | 1.72 | 0.08                     | 0.12            |
|   | 3/8                  | 9.5      | 0.66 | 16.8         | 250                          | 1.72 | 0.13                     | 0.19            |
|   | 1/2                  | 12.7     | 0.81 | 20.6         | 250                          | 1.72 | 0.17                     | 0.25            |
|   | 5/8                  | 15.9     | 0.94 | 23.9         | 250                          | 1.72 | 0.20                     | 0.30            |
|   | 3/4                  | 19.1     | 1.11 | 28.2         | 250                          | 1.72 | 0.28                     | 0.42            |
|   | 1                    | 25.4     | 1.38 | 35.1         | 200                          | 1.38 | 0.37                     | 0.55            |
|   | 11/4                 | 31.75    | 1.72 | 43.6         | 125                          | 0.86 | 0.60                     | 0.89            |
|   | 1½                   | 38.1     | 1.98 | 50.2         | 125                          | 0.86 | 0.72                     | 1.07            |
|   | 2                    | 50.8     | 2.51 | 63.8         | 100                          | 0.69 | 1.00                     | 1.48            |

AIR & MULTIPURPOSE

General Purpose

Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

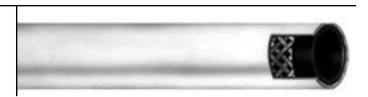
WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### BRAIDAIR™



#### **Product Specifications**

APPLICATION: A quality braided general purpose hose for industrial service, compressor lines, pneumatic

tools, water service and low-pressure spray where the need for oil resistance is moderate.

CONSTRUCTION
TUBE: Black synthetic, RMA Class A (High Oil Resistance)

**COVER:** Red synthetic, RMA Class B (Medium Oil Resistance)

**REINFORCEMENT:** Braided (1) synthetic yarn

TEMPERATURE: -20°F to 190°F (-29°C to 88°C)

**PACKAGING:** 1/4"-1" 400'-750' reels, maximum 3 pieces, 50' minimum

1¼" – 1½" 300' reels, maximum 3 pieces, 50' minimum 2" 150' – 250' carton, maximum 2 pieces, 50' minimum

BRANDING: Example: Goodyear® Braidair™ 300 psi WP (20 Bar) 3/8" (9.5mm)

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 536-422 (1/4" - 1½") 536-421 (2")

#### BRAIDAIR™

| ID   |      | NOM. OD |      | MAX. WP |      | WEIGHT  |        |
|------|------|---------|------|---------|------|---------|--------|
| in.  | mm.  | in.     | mm.  | psi     | Мра  | lb./ft. | kg./m. |
| 1/4  | 6.4  | 0.55    | 14.0 | 300     | 2.07 | 0.11    | 0.16   |
| 3/8  | 9.5  | 0.72    | 18.3 | 300     | 2.07 | 0.18    | 0.26   |
| 1/2  | 12.7 | 0.85    | 21.6 | 300     | 2.07 | 0.21    | 0.31   |
| 3/4  | 19.1 | 1.13    | 28.7 | 300     | 2.07 | 0.32    | 0.48   |
| 1    | 25.4 | 1.47    | 37.3 | 300     | 2.07 | 0.50    | 0.74   |
| 11/4 | 31.8 | 1.80    | 45.7 | 300     | 2.07 | 0.75    | 1.12   |
| 1½   | 38.1 | 2.09    | 53.1 | 300     | 2.07 | 1.00    | 1.49   |
| 2    | 50.8 | 2.50    | 63.5 | 200     | 1.38 | 1.09    | 1.62   |



### **HEAVY DUTY**



|                           | Page | MSHA | Oil<br>Resistance<br>Tube* | Oil<br>Resistance<br>Cover* | Temp<br>Range | Textile | Wire | Braided | Wrapped<br>Finish |
|---------------------------|------|------|----------------------------|-----------------------------|---------------|---------|------|---------|-------------------|
| Explorer® Air             | 29   |      | С                          | C<br>220°F                  | -40°F to      | Yes     |      | Yes     | Yes               |
| Explorer® Plus Air        | 30   |      | С                          | C<br>220°F                  | -40°F to      | Yes     |      | Yes     | Yes               |
| Plicord® Air Green 400    | 32   |      | С                          | C<br>180°F                  | -25°F to      | Yes     |      |         | Yes               |
| Plicord® Super Rock Drill | 31   | Yes  | А                          | B<br>220°F                  | -40°F to      |         | Yes  |         | Yes               |
| Steel Air                 | 28   | Yes  | В                          | B<br>200°F                  | -40°F to      |         | Yes  | Yes     | Yes               |
| Super Ortac®              | 33   | Yes  | В                          | B<br>200°F                  | -20°F to      |         | Yes  | Yes     |                   |

<sup>\*</sup>Based on RMA oil classification. For more information, see Appendix C.

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### STEEL AIR



### **Product Specifications**



**APPLICATION:** A heavy-duty, wrapped finish, single wire-braid or spiral ply wire air hose for higher

pressure service in severe industrial applications including service in mines, quarries and

construction jobs.

CONSTRUCTION

TUBE: Black Nitrile synthetic rubber, RMA Class B

**COVER:** Yellow Chemivic<sup>™</sup> synthetic rubber (wrapped impression), RMA Class B, MSHA approved

**REINFORCEMENT:** Braided (1) steel wire (1/2" - 11/2") Spiral-plied steel wire (2" - 4")

**TEMPERATURE:** -40°F to 200°F (-40°C to 93°C)

PACKAGING: 50' and 100' length, coiled

**BRANDING:** Example: Goodyear® Steel Air 500 psi 3.4 MPA 2" 50.8 mm

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**STEEL AIR ORDER CODES:** 539-159 (1/2" - 1 1/2") MSHA IC 11/9

| ID   |      | NOM. OD |      | MAX | . WP | WEIGHT  |        |
|------|------|---------|------|-----|------|---------|--------|
| in.  | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |
| 1/2  | 12.7 | 0.91    | 23.1 | 750 | 5.17 | 0.34    | 0.51   |
| 3/4  | 19.1 | 1.14    | 29.0 | 750 | 5.17 | 0.45    | 0.67   |
| 1    | 25.4 | 1.45    | 36.6 | 750 | 5.17 | 0.66    | 1.00   |
| 11/4 | 31.8 | 1.81    | 46.0 | 500 | 3.45 | 0.98    | 1.46   |
| 1½   | 38.1 | 1.98    | 50.2 | 500 | 3.45 | 0.97    | 1.44   |

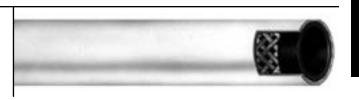
**STEEL AIR ORDER CODES:** 549-209 (2" - 4") MSHA IC 11/7

| ID  |       | NOM. OD |       | MAX. WP |      | WEIGHT  |        |
|-----|-------|---------|-------|---------|------|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Мра  | lb./ft. | kg./m. |
| 2   | 50.8  | 2.66    | 67.6  | 500     | 3.45 | 1.59    | 2.36   |
| 2½  | 63.5  | 3.33    | 84.6  | 500     | 3.45 | 2.63    | 3.91   |
| 3   | 76.2  | 3.81    | 96.8  | 500     | 3.45 | 3.07    | 4.57   |
| 4   | 101.6 | 4.90    | 124.5 | 500     | 3.45 | 4.36    | 6.49   |

Also available with Versigard® synthetic rubber tube and cover where superior heat resistance is more important than oil resistance.



### EXPLORER® AIR



### **Product Specifications**

**APPLICATION:** A versatile, heavy-duty air hose for mining, construction and industrial applications.

CONSTRUCTION

**TUBE:** Black Versigard® synthetic rubber, RMA Class C (limited oil resistance) (536-509)

Black SBR synthetic rubber, RMA Class C (limited oil resistance) (549-943)

**COVER:** Yellow Versigard® synthetic rubber (wrapped impression), RMA Class C (limited oil resistance)

**REINFORCEMENT:** Braided (1) synthetic yarn (1/2" - 2"); Spiral-plied synthetic fabric  $(2\frac{1}{2}" - 3")$ 

**TEMPERATURE:**  $-40^{\circ}$ F to  $220^{\circ}$ F ( $-40^{\circ}$ C to  $104^{\circ}$ C)

PACKAGING: 50' length, coiled

**BRANDING:** Example: 1" 24.4mm Explorer® Air 300 psi 2.1 MPA WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 536 -509 (1/2" - 1") 549-943  $(1\frac{1}{4}" - 3")$ 

#### **EXPLORER® AIR**

| ID   |      | NOM. OD |      | MAX. WP |      | WEIGHT  |        |
|------|------|---------|------|---------|------|---------|--------|
| in.  | mm.  | in.     | mm.  | psi     | Мра  | lb./ft. | kg./m. |
| 1/2  | 12.7 | 0.89    | 22.6 | 300     | 2.07 | 0.24    | 0.36   |
| 3/4  | 19.1 | 1.19    | 30.2 | 300     | 2.07 | 0.37    | 0.55   |
| 1    | 25.4 | 1.49    | 37.9 | 300     | 2.07 | 0.53    | 0.79   |
| 11/4 | 31.8 | 1.66    | 42.2 | 300     | 2.07 | 0.58    | 0.86   |
| 1½   | 38.1 | 2.01    | 51.1 | 300     | 2.07 | 0.83    | 1.24   |
| 2    | 50.8 | 2.57    | 65.3 | 300     | 2.07 | 1.20    | 1.79   |
| 2½   | 63.7 | 3.13    | 79.4 | 300     | 2.07 | 1.56    | 2.32   |
| 3    | 76.1 | 3.56    | 90.6 | 300     | 2.07 | 1.67    | 2.48   |

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# EXPLORER® PLUS AIR



### **Product Specifications**

**APPLICATION:** A versatile, heavy-duty air hose for mining, construction, and industrial applications where

medium pressures are encountered.

CONSTRUCTION
TUBE: Black Versigard® synthetic rubber (536-508), RMA Class C

Black Versigard synthetic rubber (549-317)

**COVER:** Yellow Versigard® (wrapped impression)

**REINFORCEMENT:** Braided (1) synthetic yarn (1/2" - 11/4"); Spiral-plied synthetic fabric (11/2" - 4")

**TEMPERATURE:** -40°F to 220°F (-40°C to 104°C)

PACKAGING: 50' length, coiled

**BRANDING:** Example: 1" 25.4mm Explorer® Plus Air 400psi 2.8 MPA WP. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 536-508 (1/2"-1") 549-317  $(1\frac{1}{4}"-4")$ 

#### **EXPLORER® PLUS AIR**

| ID   |       | NOM. OD |       | MAX. WP |      | WEIGHT  |        |
|------|-------|---------|-------|---------|------|---------|--------|
| in.  | mm.   | in.     | mm.   | psi     | Мра  | lb./ft. | kg./m. |
| 1/2  | 12.7  | 0.94    | 23.9  | 400     | 2.76 | 0.24    | 0.36   |
| 3/4  | 19.1  | 1.19    | 30.2  | 400     | 2.76 | 0.38    | 0.57   |
| 1    | 25.4  | 1.49    | 37.9  | 400     | 2.76 | 0.54    | 0.80   |
| 11/4 | 31.8  | 1.66    | 42.2  | 400     | 2.76 | 0.56    | 0.83   |
| 1½   | 38.1  | 2.01    | 51.1  | 400     | 2.76 | 0.83    | 1.24   |
| 2    | 50.8  | 2.54    | 64.4  | 400     | 2.76 | 1.08    | 1.61   |
| 2½   | 63.5  | 3.17    | 80.6  | 400     | 2.76 | 1.70    | 2.53   |
| 3    | 76.2  | 3.66    | 93.0  | 400     | 2.76 | 2.00    | 2.98   |
| 4    | 101.6 | 4.78    | 121.5 | 400     | 2.76 | 2.92    | 4.35   |



### PLICORD® SUPER ROCK DRILL





### **Product Specifications**

APPLICATION: A

An extra heavy-duty, high-pressure hose for pneumatic service in mining, construction and

industrial service where working conditions are especially severe.

CONSTRUCTION

TUBE: Black, heat-resistant Nitrile (ORS) synthetic rubber, RMA Class A (High Oil Resistance)

**COVER:** Blue Chemivic™ synthetic with spiral yellow transfer stripe (wrapped impression) MSHA approved,

RMA Class B (medium oil resistance)

**REINFORCEMENT:** Spiral-plied steel wire

**TEMPERATURE:** -40°F to 220°F (-40°C to 104°C)

PACKAGING: 100' length, coiled, polywrapped

BRANDING (SPIRAL): Example: Goodyear® Plicord® Super Rock Drill ORS 500 psi WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-285

#### PLICORD® SUPER ROCK DRILL

| ID  |       | NOM. OD |       | MAX. WP |      | WEIGHT  |        |
|-----|-------|---------|-------|---------|------|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Мра  | lb./ft. | kg./m. |
| 2½  | 63.5  | 3.45    | 87.7  | 500     | 3.45 | 2.96    | 4.40   |
| 3   | 76.2  | 3.94    | 100.1 | 500     | 3.45 | 3.44    | 5.12   |
| 4   | 101.6 | 4.96    | 126.0 | 400     | 2.76 | 4.55    | 6.77   |

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Vashdown

WELDING

COUPLING SYSTEMS



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### PLICORD® AIR GREEN 400



### **Product Specifications**



**APPLICATION:** A versatile, heavy-duty air hose for use in rough industrial applications or for severe service

in mines, quarries and construction jobs.

CONSTRUCTION
TUBE: Black Plioflex® synthetic rubber, RMA Class C (Limited Oil Resistance) (non-conductive)

**COVER:** Green Plioflex® synthetic rubber (wrapped impression), RMA Class C (Limited Oil Resistance)

**REINFORCEMENT:** Spiral-plied synthetic fabric

**TEMPERATURE**: -25°F to 180°F (-32°C to 82°C)

PACKAGING: 100' length, coiled, polywrapped

BRANDING (SPIRAL): Example: Goodyear® Plicord® Air Green 400 psi WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-006

#### PLICORD® AIR GREEN 400

| ID    |      | NOM. OD |      | MAX. WP |      | WEIGHT  |        |
|-------|------|---------|------|---------|------|---------|--------|
| in.   | mm.  | in.     | mm.  | psi     | Мра  | lb./ft. | kg./m. |
| 1/2   | 12.7 | 0.880   | 22.4 | 400     | 2.76 | 0.23    | 0.34   |
| 5/8   | 15.9 | 1.050   | 26.7 | 400     | 2.76 | 0.32    | 0.48   |
| 3/4   | 19.1 | 1.230   | 31.2 | 400     | 2.76 | 0.45    | 0.67   |
| 1     | 25.4 | 1.500   | 38.1 | 400     | 2.76 | 0.58    | 0.86   |
| 11/4  | 31.8 | 1.790   | 45.5 | 400     | 2.76 | 0.74    | 1.10   |
| 15/16 | 33.3 | 1.890   | 48.0 | 400     | 2.76 | 0.83    | 1.24   |
| 1½    | 38.1 | 2.040   | 51.8 | 400     | 2.76 | 0.86    | 1.28   |
| 2     | 50.8 | 2.546   | 64.7 | 400     | 2.76 | 1.11    | 1.65   |
| 2½    | 63.5 | 3.156   | 80.2 | 400     | 2.76 | 1.64    | 2.44   |
| 3     | 76.2 | 3.700   | 94.0 | 400     | 2.76 | 2.14    | 3.18   |



### SUPER ORTAC®



### **Product Specifications**

APPLICATION: For heavy-duty service in handling air, water, oil, petroleum-based solvents and agricultural spray

solutions.

CONSTRUCTION

TUBE: Nitrile synthetic rubber, RMA Class B (Medium Oil Resistance)

**COVER:** Yellow Chemivic<sup>™</sup> synthetic rubber, RMA Class B (Medium Oil Resistance), smooth finish,

pinpricked, MSHA approved

**REINFORCEMENT:** Braided (1) steel wire

TEMPERATURE: -20°F to 200°F (-29°C to 93°C)

**PACKAGING:** 1/2"-1" 500' reels, maximum 3 pieces, 50' increments

 $1\frac{1}{4}$ " -  $1\frac{1}{2}$ " 300' reels, maximum 3 pieces, 50' increments

2" 100'-200' per carton, maximum 3 pieces, 50' increments Also stocked in cut and coiled 50' lengths, 2 pieces per carton, all sizes.

**BRANDING:** Example: Goodyear® 1" Super Ortac® 1000 psi. Fire Resistant USMSHA IC-11/9. Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 539-152

| SU | PΕ | Rι | JRI | M | 36 |
|----|----|----|-----|---|----|
|    |    |    |     |   |    |

| 1    | ID   |      | NOM. OD |      | . WP | WEIGHT  |        |  |
|------|------|------|---------|------|------|---------|--------|--|
| in.  | mm.  | in.  | mm.     | psi  | Мра  | lb./ft. | kg./m. |  |
| 1/2  | 12.7 | 0.91 | 23.1    | 1000 | 6.9  | 0.34    | 0.51   |  |
| 3/4  | 19.1 | 1.14 | 29.0    | 1000 | 6.9  | 0.44    | 0.65   |  |
| 1    | 25.4 | 1.45 | 36.8    | 1000 | 6.9  | 0.63    | 0.94   |  |
| 11/4 | 31.8 | 1.75 | 44.5    | 1000 | 6.9  | 0.86    | 1.28   |  |
| 1½   | 38.1 | 1.98 | 50.8    | 1000 | 6.9  | 1.08    | 1.61   |  |
| 2    | 50.8 | 2.55 | 64.3    | 1000 | 6.9  | 1.57    | 2.34   |  |

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

Discharge
Suction &

Washdown

WELDING

COUPLING SYSTEMS



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

#### MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

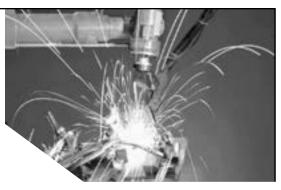
WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **PUSH-ON**



|                 | Page | Superior<br>Abrasion<br>Cover | MSHA | Non-<br>conductive | Oil<br>Resistance<br>Tube* | Oil<br>Resistance<br>Cover* | Braided | Robotic<br>Service | General<br>Industrial |
|-----------------|------|-------------------------------|------|--------------------|----------------------------|-----------------------------|---------|--------------------|-----------------------|
| Autogrip®       | 35   | Yes                           | Yes  | Yes                | В                          | Α                           | Yes     | Yes                | Yes                   |
| Insta-Grip™ 250 | 37   |                               |      | Yes                | А                          | В                           |         |                    | Yes                   |
| Insta-Grip™ 300 | 36   |                               | Yes  | Yes                | А                          | В                           | Yes     |                    | Yes                   |
| Insta-Grip™ TC  | 38   |                               |      |                    | А                          | В                           | Yes     |                    | Yes                   |
| Ultra-Grip™     | 39   | Yes                           | Yes  | Yes                | А                          | А                           | Yes     | Yes                | Yes                   |

<sup>\*</sup>Based on RMA oil classification. For more information, see Appendix C.



### **AUTOGRIP®**







APPLICATION:

**Product Specifications** 

A premium-quality push-on hose specifically designed for the rigors of robotic and automated applications where flexibility, high abuse resistance and strength are desired. It is ideally suited for use in the demanding applications of the automotive assembly, pharmaceutical, material handling and welding industries. Nonconductive, minimum electrical resistance greater than one (1) megohm per inch of hose length at 1000 Volts DC.

CONSTRUCTION

Silicone not used in the manufacturing of this hose. Neoprene, seamless, heat- and oil-resistant, TUBE:

RMA Class B (Medium Oil Resistance)

COVER: Weather-, abrasion- and oil-resistant Carbryn™ synthetic rubber, RMA Class A

(High Oil Resistance), MSHA approved

REINFORCEMENT: Braided (1) high-strength yarn laid at the most effective angle for maximum coupling

holding ability

-40°F to 200°F (-40°C to 93°C) TEMPERATURE:

PACKAGING: 1/4" - 1" 500' reels, 4 piece maximum, 10' minimum

**BRANDING:** Example: Autogrip® 9.5 mm (3/8") 21 Bar (300 psi) WP Flame Resistant USMHA 2G-14C/28.

Made in USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

USE ONLY WATER-BASED INSTALLATION LUBRICANTS.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

535-571 (black) **ORDER CODES:** 535-572 (blue) 535-573 (gray) 535-575 (red) 535-576 (white)

535-574 (green)

535-577 (brown) 535-578 (yellow) Cement & Concrete

MINING

AIR &

Push-on

**CHEMICAL** TRANSFER

**CLEANING** 

FOOD

Transfer

MARINE

MATERIAL

HANDLING

Bulk Transfer

**EQUIPMENT** 

**MULTIPURPOSE** 

**General Purpose Heavy Duty** 

PETROLEUM

Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

Suction &

WELDING

COUPLING

**APPENDIX** 

#### **AUTOGRIP®**

| ACTOCIAN |           |      |       |     |      |         |        |
|----------|-----------|------|-------|-----|------|---------|--------|
| 1        | D         | NOM  | 1. OD | MAX | . WP | WEI     | GHT    |
| in.      | mm.       | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. |
| 1/4      | 6.4       | 0.50 | 12.7  | 300 | 2.07 | 0.09    | 0.13   |
| 3/8      | 9.5       | 0.66 | 16.8  | 300 | 2.07 | 0.12    | 0.18   |
| 1/2      | 12.7      | 0.76 | 19.3  | 300 | 2.07 | 0.14    | 0.21   |
| 5/8      | 15.9      | 0.92 | 23.4  | 300 | 2.07 | 0.17    | 0.25   |
| 3/4      | 19.1      | 1.06 | 26.9  | 300 | 2.07 | 0.22    | 0.33   |
| 1        | 25.4 1.34 |      | 34.0  | 300 | 2.07 | 0.31    | 0.46   |



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### INSTA-GRIP™ 300



### **Product Specifications**





535-277 (yellow)

APPLICATION:

For use with push-on fittings at working pressures of 300 psi. For low-pressure hydraulic and pneumatic systems such as shop air systems, general industrial, maintenance and automotive assembly applications. Non-conductive, minimum electrical resistance, greater than one (1) megohm per inch of hose length at 1000 Volts DC. MSHA approved covers.

CONSTRUCTION

 $\textbf{TUBE:} \hspace{0.5cm} \textbf{Silicone is not used in the manufacturing of this hose. Chemivic}^{\text{\tiny{TM}}} \textbf{oil-} \textbf{and heat-resistant}$ 

synthetic rubber, RMA Class A (High Oil Resistance)

**COVER:** Black, Green, Blue, Red, Yellow and Gray (others: contact customer service); MSHA

approved, weather-, abrasion- and oil-resistant synthetic rubber. RMA Class B.

(Medium Oil Resistance)

REINFORCEMENT: Braided (1) high-strength synthetic yarn laid at the most effective angle for maximum

strength and coupling holding ability

**TEMPERATURE:** -40°F to 190°F (-40°C to 88°C)

PACKAGING: 500' reels, maximum 4 pieces, 10' minimum

**BRANDING:** Example: Insta-Grip<sup>™</sup> 1/4" 300 psi WP Flame Resistant USMSHA 2G-IC-14C/33.

Made in USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 535-278 (black) 535-279 (green) 535-294 (gray)

535-280 (red) 535-281 (blue)

#### INSTA-GRIP™ 300

|   | I    | D    | NOM  | 1. OD | MAX | . WP | BEND I | RADIUS | WEIGHT  |        |  |
|---|------|------|------|-------|-----|------|--------|--------|---------|--------|--|
| I | in.  | mm.  | in.  | mm.   | psi | Мра  | in.    | mm.    | lb./ft. | kg./m. |  |
|   | 1/4  | 6.4  | 0.54 | 13.7  | 300 | 2.07 | 3      | 64     | 0.09    | 0.13   |  |
|   | 3/16 | 4.8  | 0.38 | 9.7   | 300 | 2.07 | 3      | 64     | 0.05    | 0.07   |  |
|   | 5/16 | 7.9  | 0.62 | 15.7  | 300 | 2.07 | 3      | 76     | 0.12    | 0.18   |  |
|   | 3/8  | 9.5  | 0.69 | 17.5  | 300 | 2.07 | 3      | 76     | 0.14    | 0.21   |  |
|   | 1/2  | 12.7 | 0.81 | 20.6  | 300 | 2.07 | 5      | 127    | 0.17    | 0.25   |  |
|   | 5/8  | 15.9 | 0.93 | 23.6  | 300 | 2.07 | 6      | 152    | 0.20    | 0.30   |  |
|   | 3/4  | 19.1 | 1.07 | 27.2  | 300 | 2.07 | 7      | 178    | 0.26    | 0.39   |  |



INSTA-GRIP™ 250



# 8

### **Product Specifications**

**APPLICATION:** For use with push-on fittings at working pressures of 250 psi for industrial service.

Nonconductive, minimum electrical resistance greater than one (1) megohm per inch of hose

length at 1000 Volts DC.

CONSTRUCTION

**TUBE:** Chemivic<sup>™</sup> oil- and heat-resistant synthetic rubber, RMA Class A (High Oil Resistance)

**COVER:** Red, Black, or Green Chemivic<sup>™</sup>, RMA Class B (Medium Oil Resistance)

**REINFORCEMENT:** Spiral Flexten® yarn

TEMPERATURE: -20°F to 190°F (-29°C to 88°C)

**PACKAGING:** 500' reels, maximum 3 pieces, 50' increments

**BRANDING:** Example: Insta-Grip™ Nonconductive 3/8" (9.5mm) 250 psi WP. Made in USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 569-013 (red) 569-014 (black) 569-015 (green)

23.9

27.4

569-016 (grey)

0.94

1.08

15.9

19.1

5/8

3/4

269-016 (8t

| INSTA-GR | IP™ 250 |      |       |     |      |         |        |  |
|----------|---------|------|-------|-----|------|---------|--------|--|
| 1        | D       | NON  | 1. OD | MAX | . WP | WEIGHT  |        |  |
| in.      | mm.     | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 1/4      | 6.4     | 0.51 | 12.7  | 250 | 1.72 | 0.08    | 0.12   |  |
| 3/8      | 9.5     | 0.65 | 16.5  | 250 | 1.72 | 0.12    | 0.18   |  |
| 1/2      | 12.7    | 0.80 | 20.3  | 250 | 1.72 | 0.17    | 0.25   |  |

250

250

1.72

1.72

0.23

0.28

0.34

0.42

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

APPENDIX



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### INSTA-GRIP™ TC



### **Product Specifications**

APPLICATION: For low-pressure hydraulic and pneumatic systems such as shop air systems, general

industrial, maintenance and automotive assembly applications.

CONSTRUCTION

**TUBE:** Chemivic<sup>™</sup> oil- and heat-resistant synthetic rubber, RMA Class A (High Oil Resistance)

COVER: Black, dyed textile braid, mildew- and oil-resistant

**REINFORCEMENT:** Braided (1) high-strength synthetic yarn laid at an angle for strength and coupling

holding ability

**TEMPERATURE:** -40°F to 190°F (-40°C to 88°C)

**PACKAGING:** 500' reels, maximum 4 pieces, 10' minimum length

**BRANDING:** Example: Insta-Grip<sup>™</sup> TC 3/8" 300 psi WP. Made in USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 535-230

#### **INSTA-GRIP™ TC**

| I    | D    | NOM  | I. OD | MAX | . WP | BEND I | RADIUS | WEIGHT  |        |  |
|------|------|------|-------|-----|------|--------|--------|---------|--------|--|
| in.  | mm.  | in.  | mm.   | psi | Мра  | in.    | mm.    | lb./ft. | kg./m. |  |
| 1/4  | 6.4  | 0.50 | 12.7  | 300 | 2.07 | 3      | 64     | 0.08    | 0.12   |  |
| 5/16 | 7.9  | 0.56 | 14.2  | 300 | 2.07 | 3      | 76     | 0.09    | 0.13   |  |
| 3/8  | 9.5  | 0.64 | 16.3  | 300 | 2.07 | 3      | 76     | 0.11    | 0.16   |  |
| 1/2  | 12.7 | 0.75 | 19.1  | 300 | 2.07 | 5      | 127    | 0.13    | 0.19   |  |
| 5/8  | 15.9 | 0.91 | 23.1  | 300 | 2.07 | 6      | 152    | 0.19    | 0.28   |  |
| 3/4  | 19.1 | 1.03 | 26.2  | 300 | 2.07 | 7      | 178    | 0.21    | 0.31   |  |



### ULTRA-GRIP™



### **Product Specifications**





535-290 (white)





**CLEANING EQUIPMENT** 

**CHEMICAL** TRANSFER

AIR &

Push-on

**MULTIPURPOSE** 

**General Purpose Heavy Duty** 

> FOOD Transfer

> > MARINE

MATERIAL HANDLING Bulk Transfer Cement & Concrete

MINING

**PETROLEUM** 

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

Suction &

WELDING

COUPLING

**APPENDIX** 



APPLICATION: For use with push-on fittings at maximum working pressures of 400 psi\*. For low-pressure hydraulic pneumatic systems such as robotics, shop air systems, general industrial, maintenance and automotive assembly applications. Non-conductive, minimum electrical resistance greater

than one (1) megohm per inch of hose length at 1000 Volts DC. MSHA approved covers.

CONSTRUCTION

TUBE: Chemivic<sup>™</sup> oil and heat-resistant synthetic rubber, RMA Class A (High Oil Resistance)

COVER: MSHA approved Black (USMSHA 2G-1C-14C/27). Blue, Gray, Green, Red, White, Brown, and

Yellow (USMSHA 2G-1C-14C/28) (others: contact customer service), weather-, abrasion- and

oil-resistant Carbryn™ rubber, RMA Class A (High Oil Resistance)

REINFORCEMENT: Braided (1) high-strength synthetic yarn laid at an angle for strength and coupling holding ability

**TEMPERATURE:** -40°F to 200°F (-40°C to 93°C)

PACKAGING: 500' reels, maximum 4 pieces, 10' minimum length

**BRANDING:** Example: Ultra-Grip™ Non-Conductive 3/8" 400 psi WP; Flame Resistant; USMSHA 2G-IC-14C/27.

Made in USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 535-283 (black) 535-284 (blue) 535-285 (gray)

535-286 (green) 535-289 (red) 535-292 (brown) 535-551 (yellow)

#### ULTRA-GRIP™

|     |    |      | ,    |       |     |      |        |        |         |        |
|-----|----|------|------|-------|-----|------|--------|--------|---------|--------|
|     | II | D    | NOM  | I. OD | MAX | . WP | BEND F | RADIUS | WE      | IGHT   |
| in  |    | mm.  | in.  | mm.   | psi | Мра  | in.    | mm.    | lb./ft. | kg./m. |
| 3/  | 16 | 4.8  | 0.36 | 9.1   | 400 | 2.76 | 3      | 64     | 0.04    | 0.06   |
| 1/4 | 4  | 6.4  | 0.51 | 13.0  | 400 | 2.76 | 3      | 64     | 0.08    | 0.12   |
| 3/8 | 3  | 9.5  | 0.67 | 17.0  | 400 | 2.76 | 3      | 76     | 0.13    | 0.19   |
| 1/2 | 2  | 12.7 | 0.76 | 19.3  | 400 | 2.76 | 5      | 127    | 0.14    | 0.21   |
| 5/8 | 3  | 15.9 | 0.93 | 23.6  | 400 | 2.76 | 6      | 152    | 0.19    | 0.28   |
| 3/4 | 4  | 19.1 | 1.06 | 26.9  | 400 | 2.76 | 7      | 178    | 0.26    | 0.37   |
| 1   |    | 25.4 | 1.34 | 34.0  | 300 | 2.07 | 8      | 203    | 0.34    | 0.51   |

<sup>\* 1-</sup>inch rated at 300 psi.



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

# CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# CHEMICAL TRANSFER



|  | Page | Temp Range*    | Superior Flexibility | Superior Abrasion Cover | Cover Color |
|--|------|----------------|----------------------|-------------------------|-------------|
| Blue Flexwing®                                       | 44   | -25°F to 150°F |                      |                         | Blue        |
| Brown Flexwing®                                      | 46   | -30°F to 275°F | Yes                  |                         | Brown       |
| Chem One™  | 41   | -40°F to 250°F | Yes                  | Yes                     | Black       |
| DEF Transfer Hose                                    | 52   | -40°F to 257°F |                      |                         | Black       |
| Fabchem™   | 43   | -40°F to 150°F | Yes                  |                         | Green       |
| Green XLPE   | 45   | -25°F to 150°F |                      |                         | Green       |
| HI-PER®  | 47   | -40°F to 300°F |                      |                         | Blue        |
| Plicord® ExtremeFlex™ Brown                          | 50   | -30°F to 275°F |                      |                         | Brown       |
| Plicord <sup>®</sup> ExtremeFlex <sup>™</sup> Purple | 51   | -40°F to 221°F |                      |                         | Purple      |
| Orange Flexwing®                                     | 48   | -25°F to 250°F |                      |                         | Orange      |
| Purple Flexwing®                                     | 49   | -40°F to 221°F | Yes                  |                         | Purple      |
| Viper™   | 42   | -40°F to 250°F | Yes                  | Yes                     | Black       |

<sup>\*</sup>Temperature is contingent on the specific chemical conveyed.



### CHEM ONE™



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

# CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

VINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **Product Specifications**

**APPLICATION:** For the transfer of a variety of current industrial chemicals used today. (Refer to Goodyear

Engineered Products Chemical Resistance Guide for compatibility.) For use in pressure, gravity

flow and/or suction service.

CONSTRUCTION

**TUBE:** Alphasyn® Modified Cross-Linked Polyethylene (Mod XLPE)

**COVER:** Black corrugated abrasion-resistant Omegasyn™ EPDM with Red Spiral Stripe

**REINFORCEMENT:** Spiral plied synthetic fabric with double wire helix

**TEMPERATURE:** -40°F to 250°F (-40°C to 121°C)

**PACKAGING:** Coiled and polywrapped. Contact customer service for cut length.

**BRANDING:** Example: CHEM ONE™ chemical transfer hose Alphasyn® 200 PSI WP. Goodyear®

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Couplings Systems information pages at the back of the catalog.

**ORDER CODES:** 546-661

### CHEM ONE™

| ı    | D     | NOM | I. OD | MAX | . WP | BEND | RADIUS | VACUI | JM HG | WE      | IGHT   |
|------|-------|-----|-------|-----|------|------|--------|-------|-------|---------|--------|
| in.  | mm.   | in. | mm.   | psi | Мра  | in.  | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 3/4  | 19.0  | 1.2 | 30.5  | 200 | 1.38 | 2    | 50.8   | 29    | 737   | 0.39    | 0.58   |
| 1    | 25.3  | 1.4 | 36.8  | 200 | 1.38 | 3    | 76.2   | 29    | 737   | 0.49    | 0.73   |
| 11/4 | 32.0  | 1.6 | 42.2  | 200 | 1.38 | 3    | 76.2   | 29    | 737   | 0.53    | 0.78   |
| 1½   | 38.0  | 1.9 | 48.3  | 200 | 1.38 | 4    | 101.6  | 29    | 737   | 0.63    | 0.93   |
| 2    | 51.0  | 2.4 | 61.8  | 200 | 1.38 | 5    | 127.0  | 29    | 737   | 0.86    | 1.28   |
| 2½   | 63.0  | 2.9 | 75.6  | 200 | 1.38 | 6    | 152.4  | 29    | 737   | 1.24    | 1.84   |
| 3    | 76.0  | 3.4 | 88.1  | 200 | 1.38 | 8    | 203.2  | 29    | 737   | 1.46    | 2.17   |
| 4    | 102.0 | 4.5 | 115.0 | 200 | 1.38 | 11   | 279.4  | 29    | 737   | 2.06    | 3.06   |





AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

# CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdowr

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

**STEAM** 

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

APPENDIX

### VIPER™



### **Product Specifications**



**APPLICATION:** For the transfer of a variety of industrial chemicals used today. (Refer to Goodyear Engineered

Products Chemical Resistance Guide for compatibility.) For use in pressure, gravity flow and/or suction service. Hose may be cleaned using open-end steam up to 50 psi or in a bath containing

10% Sodium Hydroxide (NaOH), up to 212°F (100°C).

CONSTRUCTION

**TUBE:** Beige Alphasyn® Modified Cross-Linked Polyethylene (Modified XLPE)

**COVER:** Black Omegasyn<sup>™</sup> abrasion-resistant EPDM with white spiral stripe

**REINFORCEMENT:** Spiral-plied synthetic fabric with double wire helix

**TEMPERATURE:** -40°F to 250°F (-40°C to 121°C)

PACKAGING: 100' length coiled, polywrapped

BRANDING (SPIRAL): Example: Goodyear® Viper™ Chemical Transfer Alphasyn® 200 psi WP

**COUPLINGS:** Fittings should be permanently attached for fluid temperatures above 125°F (52°C) and up to

250°F (121°C). Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this

product. See the Couplings Systems information pages at the back of the catalog.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 546-345

#### VIPER™

|      | D     | NOM  | 1. OD | MAX | . WP | BEND | RADIUS | VACUI | JM HG | WE      | IGHT   |
|------|-------|------|-------|-----|------|------|--------|-------|-------|---------|--------|
| in.  | mm.   | in.  | mm.   | psi | Мра  | in.  | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 3/4  | 19.1  | 1.25 | 31.7  | 200 | 1.38 | 4    | 100    | 29    | 737   | 0.45    | 0.67   |
| 1    | 25.4  | 1.45 | 36.9  | 200 | 1.38 | 4    | 100    | 29    | 737   | 0.53    | 0.79   |
| 11/4 | 32.0  | 1.71 | 43.6  | 200 | 1.38 | 5    | 125    | 29    | 737   | 0.64    | 0.95   |
| 1½   | 38.1  | 1.95 | 49.6  | 200 | 1.38 | 5    | 125    | 29    | 737   | 0.74    | 1.10   |
| 2    | 50.8  | 2.54 | 64.5  | 200 | 1.38 | 7    | 175    | 29    | 737   | 1.16    | 1.73   |
| 2½   | 63.5  | 3.05 | 77.5  | 200 | 1.38 | 8    | 200    | 29    | 737   | 1.41    | 2.10   |
| 3    | 76.2  | 3.59 | 91.2  | 200 | 1.38 | 10   | 250    | 29    | 737   | 1.82    | 2.71   |
| 4    | 101.6 | 4.64 | 117.8 | 200 | 1.38 | 14   | 350    | 29    | 737   | 2.42    | 3.61   |

Note: Refer to the Goodyear Engineered Products Chemical Resistance Charts pages in Appendix B for specific chemical and temperature compatibility.

Viper chemical hose will handle fluid up to 250°F, however, this rating is contingent on the specific chemical conveyed. Contact Customer Service at 1-800-235-4632 for any chemical above the temperature stated in the Goodyear Engineered Products Chemical Resistance Guide. Refer to the Goodyear Engineered Products Chemical Resistance Chart for Specific Chemical and Temperature Compatibility.



### FABCHEM<sup>™</sup> PLIOSYN<sup>™</sup> (UHMWPE) TUBE



AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

# CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

VEYANCE

WATER

Discharge Suction & Discharge

WELDING

COUPLING SYSTEMS

APPENDIX

### **Product Specifications**

APPLICATION: A significant improvement to our chemical hose line. It handles the majority of common industrial

chemicals in pressure, gravity flow and suction service.

CONSTRUCTION TUBE:

E: Pliosyn™ Ultra-High Molecular Weight Polyethylene (UHMWPE)

**COVER:** Green Versigard® synthetic rubber with bright orange longitudinal stripe, corrugated

(wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with double wire helix

**TEMPERATURE**:  $-40^{\circ}$ F to  $150^{\circ}$ F ( $-40^{\circ}$ C to  $66^{\circ}$ C)

**PACKAGING:** 100' exact length, coiled, polywrapped

BRANDING (SPIRAL): Example: Goodyear® Fabchem™ Chemical Transfer Hose, 200 psi WP

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 546-065

#### FABCHEM™ PLIOSYN (UHMWPE) TUBE

| ı    | D     | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|------|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in.  | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1/2  | 12.7  | 0.95    | 24.1  | 200     | 1.38 | 3           | 76  | 29        | 737 | 0.33    | 0.49   |
| 3/4  | 19.1  | 1.22    | 31.0  | 200     | 1.38 | 4           | 89  | 29        | 737 | 0.46    | 0.68   |
| 1    | 25.4  | 1.47    | 37.3  | 200     | 1.38 | 4           | 102 | 29        | 737 | 0.60    | 0.89   |
| 11/4 | 31.8  | 1.73    | 43.9  | 200     | 1.38 | 4           | 102 | 29        | 737 | 0.73    | 1.09   |
| 1½   | 38.1  | 1.97    | 50.0  | 200     | 1.38 | 5           | 127 | 29        | 737 | 0.84    | 1.25   |
| 2    | 50.8  | 2.55    | 64.8  | 200     | 1.38 | 6           | 152 | 29        | 737 | 1.22    | 1.82   |
| 2½   | 63.5  | 3.14    | 79.8  | 200     | 1.38 | 8           | 203 | 29        | 737 | 1.78    | 2.65   |
| 3    | 76.2  | 3.63    | 92.2  | 200     | 1.38 | 9           | 229 | 29        | 737 | 2.11    | 3.14   |
| 4    | 101.6 | 4.67    | 118.6 | 200     | 1.38 | 10          | 254 | 29        | 737 | 2.81    | 4.18   |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

# CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# BLUE FLEXWING® SPECLAR® (XLPE)



### **Product Specifications**

**APPLICATION:** Handles the majority of today's industrial chemicals in pressure, gravity flow or suction service.

CONSTRUCTION

**TUBE:** Clear Speclar® synthetic rubber Cross-Linked Polyethylene (XLPE)

**COVER:** Blue Versigard® synthetic rubber with spiral white stripe (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with double wire helix

**TEMPERATURE:** -25°F to 150°F (-32°C to 66°C)

PACKAGING: 100' exact length, coiled, polywrapped

BRANDING (SPIRAL): Example: Goodyear® Blue Flexwing® Chemical Transfer Hose with Speclar® 200 psi WP

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 546-066 (1/2" - 4")

541-066 (6")

#### **BLUE FLEXWING®**

| ı    | D     | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|------|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in.  | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1/2  | 12.7  | 0.96    | 24.4  | 200     | 1.38 | 6           | 152 | 29        | 737 | 0.30    | 0.45   |
| 3/4  | 19.1  | 1.22    | 31.0  | 200     | 1.38 | 7           | 178 | 29        | 737 | 0.45    | 0.67   |
| 1    | 25.4  | 1.47    | 37.3  | 200     | 1.38 | 8           | 203 | 29        | 737 | 0.55    | 0.82   |
| 11/4 | 31.8  | 1.75    | 44.5  | 200     | 1.38 | 9           | 229 | 29        | 737 | 0.70    | 1.04   |
| 1½   | 38.1  | 2.04    | 51.8  | 200     | 1.38 | 10          | 254 | 29        | 737 | 0.95    | 1.41   |
| 2    | 50.8  | 2.58    | 65.5  | 200     | 1.38 | 12          | 305 | 29        | 737 | 1.22    | 1.82   |
| 2½   | 63.5  | 3.13    | 79.5  | 200     | 1.38 | 15          | 381 | 29        | 737 | 1.65    | 2.46   |
| 3    | 76.2  | 3.70    | 94.0  | 200     | 1.38 | 18          | 457 | 29        | 737 | 2.24    | 3.33   |
| 4    | 101.6 | 4.73    | 120.1 | 200     | 1.38 | 24          | 610 | 29        | 737 | 3.01    | 4.48   |
| 6    | 152.4 | 6.89    | 175.0 | 200     | 1.38 | 36          | 914 | 29        | 737 | 6.14    | 9.14   |



### GREEN XLPE CROSS LINK POLYETHYLENE



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

# CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

VEYANCE

WATER

Suction & Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **Product Specifications**

**APPLICATION:** Handles the majority of today's industrial chemicals in pressure, gravity flow or suction service.

CONSTRUCTION

TUBE: Clear Speclar® synthetic rubber Cross-Linked Polyethylene (XLPE)

**COVER:** Green Versigard® synthetic rubber with spiral white stripe (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with double wire helix

**TEMPERATURE:** -25°F to 150°F (-32°C to 66°C)

PACKAGING: 100' exact length, coiled, polywrapped

BRANDING (SPIRAL): Example: Goodyear® XLPE Chemical Transfer 150 psi

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 546-666 (1/2" - 4")

541-666 (6")

#### **GREEN XLPE**

| ı    | D     | NOM  | 1. OD | MAX | . WP | BEND | RADIUS | VACUI | JM HG | WE      | IGHT   |  |
|------|-------|------|-------|-----|------|------|--------|-------|-------|---------|--------|--|
| in.  | mm.   | in.  | mm.   | psi | Мра  | in.  | mm.    | in.   | mm.   | lb./ft. | kg./m. |  |
| 1/2  | 12.7  | 0.97 | 24.6  | 150 | 1.03 | 6    | 152    | 29    | 737   | 0.31    | 0.46   |  |
| 3/4  | 19.1  | 1.23 | 31.2  | 150 | 1.03 | 7    | 178    | 29    | 737   | 0.44    | 0.65   |  |
| 1    | 25.4  | 1.47 | 37.3  | 150 | 1.03 | 8    | 203    | 29    | 737   | 0.54    | 0.80   |  |
| 11/4 | 31.8  | 1.73 | 43.9  | 150 | 1.03 | 9    | 229    | 29    | 737   | 0.66    | 0.98   |  |
| 1½   | 38.1  | 2.03 | 51.6  | 150 | 1.03 | 10   | 254    | 29    | 737   | 0.92    | 1.37   |  |
| 2    | 50.8  | 2.61 | 66.3  | 150 | 1.03 | 12   | 305    | 29    | 737   | 1.32    | 1.96   |  |
| 2½   | 63.5  | 3.11 | 79.0  | 150 | 1.03 | 15   | 381    | 29    | 737   | 1.65    | 2.46   |  |
| 3    | 76.2  | 3.61 | 91.7  | 150 | 1.03 | 18   | 457    | 29    | 737   | 2.02    | 3.01   |  |
| 4    | 101.6 | 4.69 | 119.1 | 150 | 1.03 | 24   | 610    | 29    | 737   | 2.95    | 4.39   |  |
| 6    | 152.4 | 6.86 | 174.1 | 150 | 1.03 | 36   | 900    | 29    | 737   | 6.07    | 9.04   |  |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

# CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# BROWN FLEXWING® CHEMRIN® (CPE) TUBE



### **Product Specifications**

**APPLICATION:** A versatile chemical hose capable of handling a wide variety of acids, alcohols, salt solutions and

petroleum-based products.

CONSTRUCTION
TUBE: Black Chemrin® synthetic rubber

**COVER:** Brown Versigard® synthetic rubber with white spiral brand (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with double wire helix

**TEMPERATURE**: -30°F to 275°F (-34°C to 135°C)

PACKAGING: 100' exact length, coiled, polywrapped

BRANDING (SPIRAL): Example: Goodyear® Brown Flexwing® with Chemrin® 150 psi WP

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 546-069

541-069 Custom lengths with fittings.

#### **BROWN FLEXWING®**

| ı    | D     | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|------|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in.  | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 3/4  | 19.1  | 1.22    | 31.0  | 150     | 1.03 | 3           | 76  | 29        | 737 | 0.45    | 0.67   |
| 1    | 25.4  | 1.47    | 37.3  | 150     | 1.03 | 4           | 89  | 29        | 737 | 0.57    | 0.85   |
| 11/4 | 31.8  | 1.73    | 43.9  | 150     | 1.03 | 4           | 102 | 29        | 737 | 0.69    | 1.03   |
| 1½   | 38.1  | 2.02    | 51.3  | 150     | 1.03 | 4           | 102 | 29        | 737 | 0.95    | 1.41   |
| 2    | 50.8  | 2.55    | 64.8  | 150     | 1.03 | 5           | 127 | 29        | 737 | 1.26    | 1.88   |
| 2½   | 63.5  | 3.09    | 78.5  | 150     | 1.03 | 6           | 152 | 29        | 737 | 1.71    | 2.54   |
| 3    | 76.2  | 3.61    | 91.7  | 150     | 1.03 | 7           | 178 | 29        | 737 | 2.11    | 3.14   |
| 4    | 101.6 | 4.69    | 119.1 | 150     | 1.03 | 10          | 254 | 29        | 737 | 3.04    | 4.52   |
| 6    | 152.4 | 6.91    | 175.5 | 150     | 1.03 | 30          | 762 | 29        | 737 | 6.32    | 9.41   |



HI-PER®



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

#### CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer

MARINE

MATERIAL HANDLING

Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **Product Specifications**

APPLICATION: A premium hose which is FEP lined to handle a broad spectrum of fluids and materials in a wide

variety of applications.

CONSTRUCTION

**TUBE:** FEP has FDA/USDA compliant materials

**COVER:** Blue Versigard® synthetic rubber with bright orange spiral transfer tape (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with double wire helix

TEMPERATURE: -40°F to 300°F (-40°C to 149°C)

**PACKAGING:** Custom lengths available (minimum 5')

BRANDING (SPIRAL): Example: Goodyear® Hi-Per® Universal Chemical Hose FEP lined

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

**NON-STOCK/SIZES:** Order in increments of 100' for 1/2"-2"

Order in increments of 60' for 21/2" and larger sizes

**ORDER CODES:** 546-256

| HI-PEF | <b>{</b> ® |      |         |     |         |     |             |     |           |         |        |  |
|--------|------------|------|---------|-----|---------|-----|-------------|-----|-----------|---------|--------|--|
| ı      | ID         |      | NOM. OD |     | MAX. WP |     | BEND RADIUS |     | VACUUM HG |         | WEIGHT |  |
| in.    | mm.        | in.  | mm.     | psi | Мра     | in. | mm.         | in. | mm.       | lb./ft. | kg./m. |  |
| 1/2    | 12.7       | 0.97 | 24.6    | 200 | 1.38    | 3   | 76          | 29  | 737       | 0.37    | 0.55   |  |
| 3/4    | 19.1       | 1.11 | 28.2    | 200 | 1.38    | 5   | 127         | 29  | 737       | 0.56    | 0.83   |  |
| 1      | 25.4       | 1.52 | 38.6    | 200 | 1.38    | 8   | 191         | 29  | 737       | 0.71    | 1.06   |  |
| 11/4   | 31.8       | 1.73 | 43.9    | 200 | 1.38    | 11  | 279         | 29  | 737       | 0.84    | 1.25   |  |
| 1½     | 38.1       | 2.13 | 54.1    | 200 | 1.38    | 14  | 356         | 29  | 737       | 1.24    | 1.85   |  |
| 2      | 50.8       | 2.69 | 68.3    | 200 | 1.38    | 18  | 457         | 29  | 737       | 1.71    | 2.54   |  |
| 2½     | 63.5       | 3.14 | 79.8    | 200 | 1.38    | 22  | 559         | 29  | 737       | 2.01    | 2.99   |  |
| 3      | 76.2       | 3.67 | 93.2    | 200 | 1.38    | 35  | 889         | 29  | 737       | 2.52    | 3.75   |  |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

# CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# ORANGE FLEXWING® FLOSYN® TUBE



### **Product Specifications**

APPLICATION: A versatile chemical hose capable of handling a wide variety of acids, alcohols, salt solutions and

petroleum-based products.

CONSTRUCTION

TUBE: Black Flosyn® synthetic rubber

**COVER:** Orange Chemivic<sup>™</sup> synthetic rubber with white spiral brand (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with double wire helix

**TEMPERATURE**: -25°F to 250°F (-32°C to 121°C)

PACKAGING: 100' exact length, coiled, polywrapped

BRANDING (SPIRAL): Example: Goodyear® Orange Flexwing® with Flosyn® 150 psi WP

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: Order in increments of 100'

**ORDER CODES:** 541-063

#### **ORANGE FLEXWING®**

| ı    | D     | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|------|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in.  | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1    | 25.4  | 1.44    | 36.6  | 150     | 1.03 | 4           | 89  | 29        | 737 | 0.61    | 0.91   |
| 11/4 | 31.8  | 1.73    | 43.9  | 150     | 1.03 | 4           | 102 | 29        | 737 | 0.79    | 1.18   |
| 1½   | 38.1  | 1.97    | 50.0  | 150     | 1.03 | 4           | 102 | 29        | 737 | 0.95    | 1.41   |
| 2    | 50.8  | 2.58    | 65.5  | 150     | 1.03 | 5           | 127 | 29        | 737 | 1.45    | 2.16   |
| 21/2 | 63.5  | 3.08    | 78.2  | 150     | 1.03 | 6           | 152 | 29        | 737 | 1.77    | 2.63   |
| 3    | 76.2  | 3.59    | 91.2  | 150     | 1.03 | 7           | 178 | 29        | 737 | 2.26    | 3.36   |
| 4    | 101.6 | 4.69    | 119.1 | 150     | 1.03 | 10          | 254 | 29        | 737 | 3.31    | 4.93   |
| 6    | 152.4 | 6.81    | 173.0 | 150     | 1.03 | 30          | 762 | 29        | 737 | 6.29    | 9.36   |



PURPLE FLEXWING®



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

# CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Vashdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **Product Specifications**

APPLICATION: A versatile hose developed to handle a wide range of chemicals, acids and alcohols in both

suction and discharge service.

CONSTRUCTION TUBE:

: Black Versigard® synthetic rubber

**COVER:** Purple Versigard® with yellow spiral brand (wrapped impression)

**REINFORCEMENT:** Spiral plied synthetic fabric with double wire helix

**TEMPERATURE:** -40°F to 221°F (-40°C to 104°C)

PACKAGING: 100' exact length, coiled, polywrapped

BRANDING (SPIRAL): Example: Goodyear® Purple Flexwing® with Versigard® 150 psi Max WP

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 546-805

#### **PURPLE FLEXWING®**

| ID  |       | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|-----|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1½  | 38.1  | 2.02    | 51.3  | 150     | 1.03 | 4           | 102 | 29        | 737 | 0.95    | 1.41   |
| 2   | 50.8  | 2.53    | 64.3  | 150     | 1.03 | 5           | 127 | 29        | 737 | 1.16    | 1.73   |
| 3   | 76.2  | 3.58    | 90.9  | 150     | 1.03 | 7           | 178 | 29        | 737 | 2.00    | 2.98   |
| 4   | 101.6 | 4.69    | 119.1 | 150     | 1.03 | 10          | 254 | 29        | 737 | 3.03    | 4.51   |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

# CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### PLICORD® EXTREMEFLEX™ BROWN



### **Product Specifications**

NEW

APPLICATION: A high-tech, flexible and versatile chemical hose capable of handling a wide variety of acids,

alcohols, salt solutions and petroleum-based products.

CONSTRUCTION

TUBE: Black Chemrin® (CPE) synthetic rubber

**COVER:** Corrugated Brown Versigard® (EPDM) synthetic rubber with white spiral stripe

**REINFORCEMENT:** Spiral plied synthetic fabric with double wire helix

**TEMPERATURE:** -30°F to 275°F (-34°C to 135°C)

**PACKAGING:** 100' exact cut length, coiled, polywrapped

BRANDING (SPIRAL): Example: Goodyear® Plicord® ExtremeFlex™ Brown w/ Chemrin® 150 PSI. Made In Canada

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock™ Cam & Groove fittings with the product.

See the Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: 400' min if not stocked.

**ORDER CODES:** 546-723

#### PLICORD® EXTREMEFLEX™ BROWN

| I    | D      | NOM. OD |        | MAX. WP |      | BEND RADIUS |        | VACUUM HG |     | WEIGHT  |        |
|------|--------|---------|--------|---------|------|-------------|--------|-----------|-----|---------|--------|
| in.  | mm.    | in.     | mm.    | psi     | mpa  | in.         | mm.    | in.       | mm. | lb./ft. | kg./m. |
| 1    | 25.30  | 1.42    | 36.00  | 150     | 1.03 | 1.50        | 38.10  | 29        | 737 | 0.50    | 0.75   |
| 11/4 | 32.00  | 1.63    | 41.50  | 150     | 1.03 | 2.00        | 50.80  | 29        | 737 | 0.57    | 0.85   |
| 1½   | 38.00  | 1.92    | 48.70  | 150     | 1.03 | 2.25        | 57.20  | 29        | 737 | 0.74    | 1.10   |
| 2    | 51.20  | 2.44    | 61.90  | 150     | 1.03 | 3.00        | 76.00  | 29        | 737 | 0.97    | 1.45   |
| 3    | 76.20  | 3.54    | 89.80  | 150     | 1.03 | 4.50        | 114.00 | 29        | 737 | 1.80    | 2.68   |
| 4    | 102.10 | 4.57    | 116.10 | 150     | 1.03 | 6.00        | 152.00 | 29        | 737 | 2.47    | 3.68   |





### PLICORD® EXTREMEFLEX™ PURPLE





#### **Product Specifications**

**APPLICATION:** A high-tech, flexible and versatile chemical hose capable of handling a wide range of chemicals,

acids and alcohols in both suction and discharge service.

CONSTRUCTION

**TUBE:** Black Versigard® (EPDM) synthetic rubber

**COVER:** Corrugated Purple Versigard® (EPDM) synthetic rubber with yellow spiral stripe

**REINFORCEMENT:** Spiral plied synthetic fabric with double wire helix

**TEMPERATURE**: -40°F to 221°F (-40°C to 104°C)

PACKAGING: 100' exact cut length, coiled, polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Plicord® ExtremeFlex™ Purple 150 PSI. Made In Canada

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock™ Cam & Groove fittings with the product. See the

Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: 400' min if not stocked.

**ORDER CODES:** 546-721

#### PLICORD® EXTREMEFLEX™ PURPLE

| ID  |        | NOM. OD |        | MAX. WP |      | BENI | BEND RADIUS |     | VACUUM HG |         | WEIGHT |  |
|-----|--------|---------|--------|---------|------|------|-------------|-----|-----------|---------|--------|--|
| in. | mm.    | in.     | mm.    | psi     | mpa  | in.  | mm.         | in. | mm.       | lb./ft. | kg./m. |  |
| 1½  | 38.00  | 1.92    | 48.70  | 150     | 1.03 | 2.25 | 57.20       | 29  | 737       | 0.73    | 1.09   |  |
| 2   | 51.20  | 2.44    | 61.90  | 150     | 1.03 | 3.00 | 76.00       | 29  | 737       | 0.95    | 1.42   |  |
| 3   | 76.10  | 3.54    | 89.80  | 150     | 1.03 | 4.50 | 114.00      | 29  | 737       | 1.76    | 2.62   |  |
| 4   | 102.10 | 4.57    | 116.10 | 150     | 1.03 | 6.00 | 152.00      | 29  | 737       | 2.41    | 3.59   |  |



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

# CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

# CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# DEF TRANSFER HOSE



# NEW

### **Product Specifications**

**APPLICATION:** Diesel Exhaust Fluid (DEF: aqueous 32.5% nitrogen solution of high-purity urea in deionized water) is a key

component of selective catalytic reduction (SCR) systems, which help diesel vehicles meet stringent emission regulations effective January 1, 2010. DEF is a liquid reducing agent that reacts with engine exhaust in the presence of a catalyst to convert smog-forming nitrogen oxides (NOx) into harmless nitrogen and water vapor.

**Goodyear Engineered Products DEF Transfer Hose** is specifically designed to convey the high-purity, aqueous urea solution DEF. Hose tube compound is specially formulated with low extraction EPDM and peroxide cured to provide superior extraction levels to significantly reduce contamination. Flexible softwall construction provides superior handling in standard dispensing and reeling applications. Static wire available for installation in Class I, Division 1 areas.

CONSTRUCTION TUBE: Specially formulated low-extraction EPDM, peroxide cured

**COVER:** Specially formulated EPDM

**REINFORCEMENT:** Polyester braid

**TEMPERATURE:** -40°F to 257°F (-40°C to 125°C)

PACKAGING: Bulk

**BRANDING:** Example: Goodyear® DEF Transfer Hose 3/4" (19.1mm)

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock™ Cam & Groove fittings with the product. See the

Coupling Systems information pages at the back of the catalog.

ORDER CODES: 532-019

### **DEF TRANSFER HOSE**

| DEI TRAROTER HOOL   |  |
|---|--|
| FEATURES  | BENEFITS   |
| Specially formulated low extraction EPDM compound for tube peroxide cured | Provides superior extraction levels to significantly reduce contamination that can clog an SCR system and stop a truck |
| Enhanced manufacturing practices  | Significantly reduces contamination that can clog an SCR system and stop a truck                                       |
| Premium braided construction  | Reduced volumetric expansion to meet Weights and Measures system criteria  |
| Static Wire   | Requirement for installations in Class I, Division 1 areas as outlined in NFPA 70                                      |
| Meets ISO 22241 standard  | Ensures desirable characteristics of AUS 32 (DEF) are met, such as quality, safety, reliability and contamination      |

#### **DEF TRANSFER HOSE**

| ID   |      | NO  | OM. OD | WEI    | GHT  | MAX |      |  |
|------|------|-----|--------|--------|------|-----|------|--|
| in.  | mm.  | in. | mm.    | lbs/ft | kg/m | psi | Мра  |  |
| 11/2 | 38.1 | 2.1 | 53.3   | .80    | 1.19 | 250 | 1.72 |  |





AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

#### CLEANING EQUIPMENT

| FUUD     |
|----------|
| Transfer |
| Washdown |

#### MARINE

MATERIAL

#### HANDLING Abrasives Bulk Transfer Cement & Concrete

#### MINING

### PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

VEYANCE

# WATER

Suction & Discharge Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

|                             | Page | Superior<br>Abrasion<br>Cover | Oil<br>Resistance<br>Cover | Microban<br>Cover | Temp<br>Range     | Non-<br>Marking* | Wire | Textile | Coupled<br>Assemblies |
|-----------------------------|------|-------------------------------|----------------------------|-------------------|-------------------|------------------|------|---------|-----------------------|
| Fortress® 300               | 83   | Yes                           | Yes                        |                   | -20°F to<br>200°F | Yes              |      | Yes     |                       |
| Fortress® 1000              | 84   | Yes                           | Yes                        | Yes               | -20°F to 200°F    | Yes              |      | Yes     | Yes                   |
| Fortress® 3000              | 85   | Yes                           | Yes                        | Yes               | -20°F to<br>250°F | Yes              | Yes  |         | Yes                   |
| Galvanator® 3000            | 64   | Yes                           | Yes                        |                   | -20°F to 250°F    | Yes              | Yes  |         | Yes                   |
| Gauntlet® 1500              | 61   | Yes                           | Yes                        |                   | -20°F to 200°F    | Yes              |      | Yes     | Yes                   |
| Gauntlet® 3000              | 62   | Yes                           | Yes                        |                   | -20°F to 250°F    | Yes              | Yes  |         | Yes                   |
| Gauntlet® 4500              | 63   | Yes                           | Yes                        |                   | -20°F to<br>250°F | Yes              | Yes  |         | Yes                   |
| Neptune <sup>™</sup> 1500   | 55   |                               |                            |                   | -20°F to 200°F    | Yes              |      | Yes     | Yes                   |
| Neptune <sup>™</sup> 3000   | 56   |                               |                            |                   | -20°F to<br>250°F | Yes              | Yes  |         | Yes                   |
| Neptune <sup>™</sup> 4001-R | 57   |                               |                            |                   | -20°F to 250°F    | Yes              | Yes  |         | Yes                   |
| Neptune <sup>™</sup> 4500   | 58   |                               |                            |                   | -20°F to<br>250°F | Yes              | Yes  |         | Yes                   |
| Neptune <sup>™</sup> 6000   | 59   |                               |                            |                   | -20°F to 250°F    | Yes              | Yes  |         | Yes                   |
| SpiraFlow®                  | 54   |                               |                            |                   | -20°F to<br>250°F | Yes              | Yes  |         | Yes                   |
| Whitewater®                 | 60   |                               |                            |                   | -20°F to 250°F**  | Yes              | Yes  |         | Yes                   |

<sup>\*</sup> Nonblack Colors



<sup>\*\*</sup> Hot water for Steam Cleaner Service at 325°F and 350 psi

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

#### CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **SPIRAFLOW®**



### **Product Specifications**

**APPLICATION:** Designed specifically for the pressure washer industry. A pressure washer hose that reduces

damming which can cause clean spots. Ideal for surface cleaning applications such as parking decks and lots; beef, dairy and poultry operations; gas stations; garages; and auto mechanic

shops.

CONSTRUCTION

**TUBE:** Black Nitrile synthetic rubber

COVER: Black, Blue, or Gray oil-resistant synthetic rubber, RMA Class B (medium/high oil resistance)

**REINFORCEMENT:** Braided (1) steel wire

TEMPERATURE: -20°F to 250°F (-29°C to 121°C)

**PACKAGING:** 500' reels, maximum 3 pieces, 50' increments, coupled lengths available.

BRANDING: Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendations and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 539-185 (black) 539-186 (blue) 539-187 (gray)

#### **SPIRAFLOW®**

| ID  |      | NOM  | I. OD | MAX  | . WP  | WEIGHT  |        |  |
|-----|------|------|-------|------|-------|---------|--------|--|
| in. | mm.  | in.  | mm.   | psi  | Мра   | lb./ft. | kg./m. |  |
| 3/8 | 9.53 | 0.78 | 19.69 | 4000 | 27.58 | 0.30    | 0.44   |  |



NEPTUNE™ 1500



AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

**CLEANING** 

FOOD Transfer

MARINE

MATERIAL

HANDLING

Bulk Transfer

Cement & Concrete

**EQUIPMENT** 

### **Product Specifications**

**APPLICATION:** For pressure washer equipment, agricultural sprayers and high-pressure air lines.

CONSTRUCTION

TUBE: Nitrile synthetic rubber

COVER: Blue, Gray, Red, Yellow or Black oil-resistant synthetic rubber, RMA Class B

(Medium Oil Resistance)

**REINFORCEMENT:** Braided (1) synthetic yarn up through 1/2". Braided (2) synthetic yarn for 3/4"

**TEMPERATURE:** -20°F to 200°F (-29°C to 93°C)

**PACKAGING:** 1/4" – 5/16" 550' to 750' reels, max 8 pieces, 25' minimum

3/8" 500' reels, max 3 pieces, 50' increments 1/2" – 3/4" 450' to 550' reels, max 5 pieces, 10' minimum

**BRANDING:** Example: Neptune<sup>™</sup> 1500 3/8" 1500 psi WP. Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

Coupled lengths with MxMS fittings and Kink Guards available.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 536-374 (blue) 536-387 (gray) 536-388 (black)

536-490 (yellow)

PETROLEUM

Aircraft Fueling
Dispensing

Dock

MINING

Transfer

SPRAY

STEAM

VACUUM

VEYANCE

WATER

Suction & Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

#### NEPTUNE™ 1500

| ID   |      | NOM  | I. OD | MAX  | . WP  | WEIGHT  |        |  |
|------|------|------|-------|------|-------|---------|--------|--|
| in.  | mm.  | in.  | mm.   | psi  | Мра   | lb./ft. | kg./m. |  |
| 1/4  | 6.4  | 0.59 | 15.0  | 1500 | 10.34 | 0.11    | 0.16   |  |
| 5/16 | 7.9  | 0.69 | 17.5  | 1500 | 10.34 | 0.15    | 0.22   |  |
| 3/8  | 9.5  | 0.75 | 19.1  | 1500 | 10.34 | 0.18    | 0.27   |  |
| 1/2  | 12.7 | 0.84 | 21.3  | 1200 | 8.27  | 0.19    | 0.28   |  |
| 3/4  | 19.1 | 1.25 | 31.8  | 1500 | 10.34 | 0.42    | 0.62   |  |

Note: Not recommended for steam service.

Neptune 1500 in 1/2" ID size is rated at a working pressure rating of 1200 psi. All other sizes listed above are rated at a working pressure of 1500 psi.



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

#### CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### NEPTUNE™ 3000



### **Product Specifications**

**APPLICATION:** For use on pressure washer machines with working pressures up to 3000 psi.

CONSTRUCTION

TUBE: Nitrile synthetic rubber

COVER: Black, Blue, Yellow or Gray oil-resistant synthetic rubber, RMA Class B

(Medium Oil Resistance)

**REINFORCEMENT:** Braided (1) steel wire

TEMPERATURE: -20°F to 250°F (-29°C to 121°C)

**PACKAGING:** 500' reel, maximum 3 pieces, 50' increments

**BRANDING:** Example: Neptune<sup>™</sup> 3000 Goodyear® 3/8" 3000 psi WP. Made in USA

**COUPLINGS:** Use Goodyear Engineered Products pressure washing fittings with this product. See the

Coupling Systems information pages at the back of the catalog for available sizes. Refer to the Goodyear Engineered Products Hose Assembly Manual for crimp procedures. Coupled

lengths with MxMS fittings and Kink Guards available.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 539-085 (black) 539-089 (blue) 539-104 (yellow) 539-090 (gray)

#### NEPTUNE™ 3000

| ID  |      | NOM  | I. OD | MAX  | . WP  | WEIGHT  |        |  |
|-----|------|------|-------|------|-------|---------|--------|--|
| in. | mm.  | in.  | mm.   | psi  | Мра   | lb./ft. | kg./m. |  |
| 1/4 | 6.4  | 0.53 | 13.5  | 3000 | 20.69 | 0.15    | 0.22   |  |
| 3/8 | 9.5  | 0.69 | 17.5  | 3000 | 20.69 | 0.24    | 0.36   |  |
| 1/2 | 12.7 | 0.82 | 20.8  | 3000 | 20.69 | 0.32    | 0.48   |  |



### NEPTUNE™ 4001-R



AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

### **Product Specifications**

**APPLICATION:** For high-pressure washer equipment with working pressures up to 4000 psi.

CONSTRUCTION

TUBE: Nitrile synthetic rubber

COVER: Black, Yellow, Blue or Gray oil resistant synthetic rubber, RMA Class B (Medium Oil

Resistance)

**REINFORCEMENT:** Braided (1) steel wire

**TEMPERATURE:** -20°F to 250°F (-29°C to 121°C)

**PACKAGING:** 500' reel, maximum 3 pieces, 50' increments

BRANDING: Example: Neptune™ 4001-R 3/8" 4000 psi WP. Made in USA. Goodyear®

**COUPLINGS:** Use Goodyear Engineered Products pressure washing fittings with this product. See the

Coupling Systems information pages at the back of the catalog for available sizes. Refer to the Goodyear Engineered Products Hose Assembly Manual for crimp procedures. Coupled

lengths with MxMS fittings and Kink Guards available.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 539-261 (black) 539-266 (yellow) 539-265 (blue)

539-262 (gray) 539-111 (red)

#### NEPTUNE™ 4001-R

| ID  |         | NOM     | I. OD | MAX  | . WP  | WEIGHT  |        |  |
|-----|---------|---------|-------|------|-------|---------|--------|--|
| in. | mm.     | in. mm. |       | psi  | Мра   | lb./ft. | kg./m. |  |
| 3/8 | 3/8 9.5 |         | 17.5  | 4000 | 27.58 | 0.25    | 0.37   |  |

Note: Not recommended for steam service.

#### CLEANING EQUIPMENT

FOOD Transfer

MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

#### CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# NEPTUNE™ 4500



### **Product Specifications**

**APPLICATION:** For use on pressure washer machines with working pressures up to 4500 psi.

CONSTRUCTION

TUBE: Nitrile synthetic rubber

**COVER:** Black or Blue oil-resistant synthetic rubber, RMA Class B (Medium Oil Resistance)

**REINFORCEMENT:** Braided (2) steel wires

TEMPERATURE: -20°F to 250°F (-29°C to 121°C)

PACKAGING: 1/4"-3/8" 500' reels, maximum 3 pieces, minimum of 50' lengths 1/2" 500' reels, maximum 3 pieces, minimum of 50' lengths

**BRANDING:** Example: Neptune<sup>™</sup> 4500 3/8" 4500 psi WP. Made in USA

**COUPLINGS:** Use Goodyear Engineered Products pressure washing fittings with this product. See the

Coupling Systems information pages at the back of the catalog for available sizes. Refer to the Goodyear Engineered Products Hose Assembly Manual for crimp procedures. Coupled

lengths with MxMS fittings and Kink Guards available.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 539-091 (black) 539-124 (blue)

#### NEPTUNE™ 4500

| ID  |      | NOM  | I. OD | MAX  | . WP  | WEIGHT  |        |  |
|-----|------|------|-------|------|-------|---------|--------|--|
| in. | mm.  | in.  | mm.   | psi  | Мра   | lb./ft. | kg./m. |  |
| 1/4 | 6.4  | 0.54 | 13.7  | 4500 | 31.03 | 0.20    | 0.30   |  |
| 3/8 | 9.5  | 0.69 | 17.5  | 4500 | 31.03 | 0.28    | 0.42   |  |
| 1/2 | 12.7 | 0.82 | 20.8  | 4500 | 31.03 | 0.35    | 0.52   |  |



### NEPTUNE™ 6000



AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

**CLEANING** 

FOOD Transfer

**EQUIPMENT** 

### **Product Specifications**

**APPLICATION:** For use on pressure washer machines with working pressures up to 6000 psi.

CONSTRUCTION

TUBE: Nitrile synthetic rubber

**COVER:** Black oil resistant synthetic rubber, RMA Class B (Medium Oil Resistance)

**REINFORCEMENT:** Braided (2) steel wires

**TEMPERATURE:** -20°F to 250°F (-29°C to 121°C)

PACKAGING: 500' reels, maximum 3 piece, 50' increments, coupled lengths available

**BRANDING:** Example: Neptune<sup>™</sup> 6000 3/8" 6000 psi WP. Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 539-149 (black) 539-148 (gray)

# Washdown

MARINE

MATERIAL HANDLING

Abrasives Bulk Transfer Cement & Concrete

icht & concicte

#### MINING

PETROLEUM Aircraft Fueling

Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER

Suction & Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

#### NEPTUNE™ 6000

| ID  |         | NON | I. OD     | MAX | . WP  | WEIGHT    |        |  |
|-----|---------|-----|-----------|-----|-------|-----------|--------|--|
| in. | mm.     | in. | mm.       | psi | Мра   | lb./ft.   | kg./m. |  |
| 3/8 | 3/8 9.5 |     | 0.69 17.5 |     | 41.37 | 0.30 0.45 |        |  |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

#### CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### WHITEWATER®



### **Product Specifications**

APPLICATION: For use on

For use on either steam cleaner machines or combination steam cleaner/pressure

washer machines.

CONSTRUCTION TUBE:

Pyrosyn<sup>®</sup> synthetic rubber

**COVER:** Black and Red Hysunite<sup>™</sup> synthetic rubber, RMA Class B (Medium Oil Resistance)

**REINFORCEMENT:** Braided (1) steel wire

**TEMPERATURE:** Handles hot water at 325°F/163°C and 350 psi for Steam Cleaning Service, handles hot

water at 250°F/121°C and 3000 psi (2500 psi on 1/2") for Pressure Washer Service

**PACKAGING:** 500' reel, maximum 3 pieces, 50' increments coupled lengths available

**BRANDING:** Example: Goodyear® 3/8" Whitewater® Pressure Washer 3000 psi/250°F Steam Cleaner

350 psi/325°F. Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 539-095 (black) 539-110 (red)

### WHITEWATER® - STEAM CLEANER SERVICE - up to 325°F (163°C)

| NON | Л. ID | NOM     | I. OD | MAX | . WP | WEIGHT  |        |  |
|-----|-------|---------|-------|-----|------|---------|--------|--|
| in. | mm.   | in. mm. |       | psi | Мра  | lb./ft. | kg./m. |  |
| 3/8 | 9.50  | 0.69    | 17.50 | 350 | 2.40 | 0.23    | 0.34   |  |
| 1/2 | 12.70 | 0.83    | 21.20 | 350 | 2.40 | 0.31    | 0.46   |  |

#### WHITEWATER® - PRESSURE WASHER SERVICE - up to 250°F (121°C)

| NOM. ID |       | NOM     | I. OD | MAX   | . WP    | WEIGHT |        |  |
|---------|-------|---------|-------|-------|---------|--------|--------|--|
| in.     | mm.   | in. mm. |       | psi   | psi Mpa |        | kg./m. |  |
| 3/8     | 9.50  | 0.69    | 17.50 | 3,000 | 20.6    | 0.23   | 0.34   |  |
| 1/2     | 12.70 | 0.83    | 21.20 | 2,500 | 16.9    | 0.31   | 0.46   |  |



GAUNTLET® 1500



## ERIOR ASION

**Product Specifications** 

**APPLICATION:** Gauntlet® 1500 is for pressure washer equipment with working pressures up to 1500 psi. Its

super abrasion-resistant cover provides maximum protection against adverse effects of oil

and animal fats.

CONSTRUCTION

**TUBE:** Nitrile synthetic rubber

**COVER:** Black or Yellow oil-resistant Carbryn™ synthetic rubber, RMA Class A (High Oil Resistance)

REINFORCEMENT: Braided (1) synthetic yarn up through 1/2". Braided (2) synthetic yarn for 3/4"

TEMPERATURE: -20°F to 200°F (-29°C to 93°C)

**PACKAGING:** 500' reel, maximum 3 pieces, 50' increments

**BRANDING:** Example: Goodyear® Gauntlet® 1500 3/8" 1500 psi. Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

Coupled lengths with MxMS fittings and Kink Guards available.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 536-480 (black) 536-474 (yellow) 536-574 (red)

GAUNTLET® 1500

| ı   | D    | NOM  | I. OD | MAX  | . WP  | WEIGHT  |        |  |
|-----|------|------|-------|------|-------|---------|--------|--|
| in. | mm.  | in.  | mm.   | psi  | Мра   | lb./ft. | kg./m. |  |
| 1/4 | 6.4  | 0.59 | 15.0  | 1500 | 10.34 | 0.11    | 0.16   |  |
| 3/8 | 9.5  | 0.75 | 19.1  | 1500 | 10.34 | 0.18    | 0.27   |  |
| 1/2 | 12.7 | 0.84 | 21.3  | 1200 | 8.27  | 0.18    | 0.27   |  |
| 3/4 | 19.1 | 1.25 | 31.8  | 1500 | 10.34 | 0.41    | 0.61   |  |

Note: Not recommended for steam service.

Gauntlet 1500 in the 1/2" ID is rated at a working pressure of 1200 psi. All other sizes listed above are rated at a working pressure of 1500 psi.

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

#### CLEANING EQUIPMENT

FOOD Transfer Vashdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Vashdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

#### CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### GAUNTLET® 3000



#### **Product Specifications**

SUPERIOR ABRASION RESISTANCE

**APPLICATION:** For use on pressure washer machines with working pressures up to 3000 psi. Its super

abrasion-resistant cover provides maximum protection against adverse affects of oil and

animal fats.

CONSTRUCTION

TUBE: Nitrile synthetic rubber

**COVER:** Black or Yellow oil-resistant Carbryn™ synthetic rubber, RMA Class A (High Oil Resistance)

**REINFORCEMENT:** Braided (1) steel wire

**TEMPERATURE:** -20°F to 250°F (-29°C to 121°C)

PACKAGING: 500' reels, maximum 3 pieces, 50' increments

**BRANDING:** Example: Goodyear® Gauntlet® 3000 3/8" 3000 psi. Made in USA

**COUPLINGS:** Use Goodyear Engineered Products pressure washing fittings with this product. See the

Coupling Systems information pages at the back of the catalog for available sizes. Refer to the Goodyear Engineered Products Hose Assembly Manual for crimp procedures. Coupled

lengths with MxMS fittings and Kink Guards available.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 539-099 (black) 539-100 (yellow)

### GAUNTLET® 3000

| ID  |      | NON  | I. OD   | MAX  | . WP    | WEIGHT |        |  |
|-----|------|------|---------|------|---------|--------|--------|--|
| in. | mm.  | in.  | in. mm. |      | psi Mpa |        | kg./m. |  |
| 3/8 | 9.5  | 0.69 | 17.5    | 3000 | 20.69   | 0.24   | 0.36   |  |
| 1/2 | 12.7 | 0.82 | 20.8    | 3000 | 20.69   | 0.32   | 0.48   |  |



GAUNTLET® 4500



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

#### CLEANING EQUIPMENT

FOOD Transfer

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **Product Specifications**

APPLICATION:

For use on pressure washer machines with working pressures up to 4500 psi. Its super

abrasion-resistant cover provides maximum protection against adverse affects of oil and

animal fats.

CONSTRUCTION

PACKAGING:

TUBE: Nitrile synthetic rubber

**COVER:** Black or Yellow oil-resistant Carbryn™ synthetic rubber, RMA Class A (High Oil Resistance)

**REINFORCEMENT:** Braided (2) steel wires

**TEMPERATURE**: -20°F to 250°F (-29°C to 121°C)

1/4"-3/8" 500' reels, maximum 3 pieces, minimum of 50' lengths,

coupled lengths available

1/2" 500' reels, maximum 3 pieces, minimum of 50' lengths,

coupled lengths available

BRANDING: Example: Goodyear® Gauntlet® 4500 3/8" 4500 psi WP. Made in USA

**COUPLINGS:** Use Goodyear Engineered Products pressure washing fittings with this product. See the

Coupling Systems information pages at the back of the catalog for available sizes. Refer to the Goodyear Engineered Products Hose Assembly Manual for crimp procedures. Coupled

lengths with MxMS fittings and Kink Guards available.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 539-122 (black) 539-120 (yellow)

#### GAUNTLET® 4500

|         |      | <b>\</b> |         |      |       |         |        |  |
|---------|------|----------|---------|------|-------|---------|--------|--|
| I       | D    | NOM      | I. OD   | MAX  | . WP  | WEIGHT  |        |  |
| in. mm. |      | in.      | in. mm. |      | Мра   | lb./ft. | kg./m. |  |
| 1/4     | 6.4  | 0.54     | 13.7    | 4500 | 31.03 | 0.20    | 0.30   |  |
| 3/8     | 9.5  | 0.69     | 17.5    | 4500 | 31.03 | 0.27    | 0.40   |  |
| 1/2     | 12.7 | 0.82     | 20.8    | 4500 | 31.03 | 0.34    | 0.51   |  |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

#### CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# GALVANATOR® 3000



### **Product Specifications**

SUPERIOR ABRASION RESISTANCE

APPLICATION: For pressure washer equipment. Its rust-resistant reinforcement and superior abrasion-

resistant cover provides maximum protection against adverse affects of water, oil and

animal fats.

CONSTRUCTION

TUBE: Nitrile synthetic rubber

**COVER:** Yellow or Black Carbryn<sup>™</sup> synthetic rubber (wrapped finish), ORS, RMA Class A

(High Oil Resistance)

REINFORCEMENT: Braided (2) steel wires

**TEMPERATURE**: -20°F to 250°F (-29°C to 121°C)

**PACKAGING:** 500' reels, maximum 3 pieces, 50' increments

BRANDING: Example: Galvanator® 3000 3/8" (9.5mm) 3000 psi (20.7 Mpa). Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

Coupled lengths with MxMS fittings and Kink Guards available.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 539-200 (yellow) 539-201 (black)

#### **GALVANATOR® 3000**

| I   | D    | NOM  | I. OD | MAX     | . WP  | BEND F | RADIUS | WEIGHT  |        |  |
|-----|------|------|-------|---------|-------|--------|--------|---------|--------|--|
| in. | mm.  | in.  | mm.   | psi Mpa |       | in.    | mm.    | lb./ft. | kg./m. |  |
| 3/8 | 9.5  | 6.9  | 17.5  | 3000    | 20.69 | 2.0    | 64     | 0.26    | 0.39   |  |
| 1/2 | 12.7 | 0.82 | 20.8  | 3000    | 20.69 | 3.5    | 89     | 0.31    | 0.49   |  |



# FOOD TRANSFER



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

| FOOD     |  |
|----------|--|
| Transfer |  |
| Washdown |  |

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

|   |      |                  |                   |               |       |       |                    |        | <b>Terres</b>     |        |                |                 |
|---|------|------------------|-------------------|---------------|-------|-------|--------------------|--------|-------------------|--------|----------------|-----------------|
|   | Page | Dry or<br>Liquid | Temp<br>Range     | Beer/<br>Wine | Dairy | Clear | Thermo-<br>plastic | Rubber | 3-A, FDA,<br>USDA | NSF 61 | Static<br>Wire | Helical<br>Wire |
| Exstatic®   | 69   | Dry              | -25°F to          |               |       |       |                    | Yes    | FDA,              |        |                | Yes             |
|   |      |                  | 180°F             |               |       |       |                    |        | USDA              |        |                |                 |
| Gray Flextra® LT  | 68   | Liquid           | 212°F             |               | Yes   |       |                    | Yes    | Yes               |        |                | Yes             |
| Harvest™  | 70   | Dry              | -25°F to 180°F    |               |       |       |                    | Yes    | Yes               |        |                | Yes             |
| Nutriflex <sup>™</sup> S&D                                  | 72   | Both             | -15°F to<br>158°F | Yes           | Yes   | Yes   | Yes                |        | Yes               | Yes    |                |                 |
| Nutriflex <sup>™</sup> Static Wire                          | 73   | Dry              | -15°F to          |               | Yes   | Yes   | Yes                |        | Yes               | Yes    | Yes            |                 |
| Nutriflo® S&D   | 71   | Both             | -15°F to          | Yes           | Yes   | Yes   | Yes                |        | Yes               | Yes    |                |                 |
| Plicord® Blue Flour   | 74   | Dry              | -40°F to<br>180°F |               |       |       |                    | Yes    | FDA               |        | Yes            |                 |
| Plicord® Brewline®  | 75   | Liquid           | -40°F to 220°F    | Yes           |       |       |                    | Yes    | Yes               |        |                |                 |
| Plicord <sup>®</sup> Extremeflex <sup>™</sup><br>Food Grade |      | Dry              | -25°F to 212°F    |               | Yes   |       |                    | Yes    | Yes               |        |                | Yes             |
| Plicord® Gray Food  | 67   | Liquid           | 230°F             |               | Yes   |       |                    | Yes    | Yes               |        |                | Yes             |
| Plicord® Wineline®  | 77   | Liquid           | 220°F             |               |       |       |                    | Yes    | Yes               |        |                |                 |
| Pliovic® FG (FDA-3A)  | 78   | Both             | -10°F to<br>158°F |               | Yes   | Yes   | Yes                |        | Yes               | Yes    |                |                 |
| Potable Water   | 79   | Liquid           | -40°F to<br>180°F |               |       |       |                    | Yes    | Yes               |        |                |                 |
| Spirathane™ PT  | 120  | Dry              | 0°F to<br>158°F   |               |       | Yes   | Yes                |        | FDA               |        | Yes            |                 |
| Vintner™  | 80   | Liquid           |                   | Yes           |       |       |                    | Yes    | Yes               |        |                |                 |
| White Flexwing®   | 66   | Both             | -25°F to 230°F    |               | Yes   |       |                    | Yes    | Yes               |        |                | Yes             |



## **FOOD**

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD

Transfer

Washdown

MARINE

MATERIAL HANDLING

Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &

Washdowr

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### WHITE FLEXWING®



### **Product Specifications**



APPLICATION: A highly flexible hose for gravity flow, pressure, or suction service transferring oily and non-oily

edibles from tank truck and in-plant service.

CONSTRUCTION

**TUBE:** White Chemivic<sup>™</sup> synthetic rubber (FDA/USDA compliant and conforms to 3-A Sanitary

Standard 18-03)

**COVER:** White Chemivic synthetic rubber (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with galvanized wire helix

**TEMPERATURE:** -25°F to 230°F (-32°C to 110°C)

PACKAGING: 100' length, coiled, polywrapped

BRANDING (SPIRAL): Example: Goodyear® White Flexwing® 150 psi WP; FDA, 3-A, and USDA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendations and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-151

#### WHITE FLEXWING®

| ı    | D     | NOM  | 1. OD | MAX | . WP | BEND I | RADIUS | VACUI | JM HG | WE      | IGHT   |
|------|-------|------|-------|-----|------|--------|--------|-------|-------|---------|--------|
| in.  | mm.   | in.  | mm.   | psi | Мра  | in.    | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 3/4  | 19.1  | 1.20 | 30.5  | 150 | 1.03 | 2      | 51     | 29    | 737   | 0.47    | 0.70   |
| 1    | 25.4  | 1.44 | 36.6  | 150 | 1.03 | 3      | 76     | 29    | 737   | 0.57    | 0.85   |
| 11/4 | 31.8  | 1.70 | 43.2  | 150 | 1.03 | 4      | 102    | 29    | 737   | 0.69    | 1.03   |
| 1½   | 38.1  | 1.97 | 50.0  | 150 | 1.03 | 4      | 102    | 29    | 737   | 0.86    | 1.28   |
| 2    | 50.8  | 2.53 | 64.3  | 150 | 1.03 | 5      | 114    | 29    | 737   | 1.23    | 1.83   |
| 2½   | 63.5  | 3.10 | 78.7  | 150 | 1.03 | 6      | 146    | 29    | 737   | 1.81    | 2.69   |
| 3    | 76.2  | 3.60 | 91.4  | 150 | 1.03 | 7      | 178    | 29    | 737   | 2.16    | 3.21   |
| 4    | 101.6 | 4.64 | 117.9 | 150 | 1.03 | 10     | 254    | 29    | 737   | 3.05    | 4.54   |
| 5    | 127.0 | 5.97 | 151.6 | 150 | 1.03 | 20     | 508    | 29    | 737   | 5.73    | 8.53   |



# PLICORD® GRAY





#### **Product Specifications**

**APPLICATION:** A flexible hose for gravity flow, pressure, or suction service transferring edibles from tank truck

and in-plant service.

CONSTRUCTION

**TUBE:** White Chemivic™ synthetic rubber (FDA/USDA compliant and conforms to 3-A Sanitary

Standard 18-03)

**COVER:** Gray Chemivic synthetic rubber (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with Galvanized Wire helix

**TEMPERATURE:** -25°F to 230°F (-32°C to 110°C)

PACKAGING: 100' length, coiled, polywrapped

BRANDING (SPIRAL): Example: Goodyear® Plicord® Gray Food; FDA, 3-A, and USDA 150 psi

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendations and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-834

PLICORD® GRAY FOOD

| ID  |       | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|-----|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1   | 25.4  | 1.45    | 36.7  | 150     | 1.03 | 3           | 75  | 29        | 737 | 0.58    | 0.86   |
| 1½  | 38.1  | 1.97    | 50.0  | 150     | 1.03 | 4           | 102 | 29        | 737 | 0.85    | 1.26   |
| 2   | 50.8  | 2.59    | 65.8  | 150     | 1.03 | 5           | 114 | 29        | 737 | 1.42    | 2.11   |
| 2½  | 63.5  | 3.09    | 78.5  | 150     | 1.03 | 6           | 152 | 29        | 737 | 1.77    | 2.63   |
| 3   | 76.2  | 3.59    | 91.2  | 150     | 1.03 | 7           | 178 | 29        | 737 | 2.10    | 3.13   |
| 4   | 101.6 | 4.68    | 118.9 | 150     | 1.03 | 10          | 254 | 29        | 737 | 3.19    | 4.75   |

For Goodyear Engineered Products food hose compliance information, see Appendix C.

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Vashdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 



## **FOOD**

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

**FOOD** 

Transfer

Washdown

MARINE

MATERIAL HANDLING

Bulk Transfer

Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### GRAY FLEXTRA® LT



### **Product Specifications**



**APPLICATION:** A lightweight, highly flexible hose used for transferring edibles in gravity flow, pressure, or

suction service. Larger I.D. sizes (5" and 6") applicable as "must" hoses in the wine industry.

CONSTRUCTION

**TUBE:** White Chemivic<sup>™</sup> (complies with FDA, USDA and 3-A)

**COVER:** Gray Chemivic<sup>™</sup> (corrugated, wrapped impression)

**REINFORCEMENT:** Synthetic textile fabric plies and two galvanized wire helix

**TEMPERATURE**: -25°F to 212°F (-32°C to 100°C)

PACKAGING: Coiled-polyethylene wrapped/bagel pack

BRANDING (SPIRAL): Example: Goodyear® Gray Flextra® LT 150 psi WP; FDA, 3-A and USDA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-357

#### **GRAY FLEXTRA® LT**

| ID  |       | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|-----|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1½  | 38.1  | 1.92    | 48.8  | 150     | 1.03 | 3           | 64  | 29        | 737 | 0.77    | 1.15   |
| 2   | 50.8  | 2.44    | 62.0  | 150     | 1.03 | 3           | 76  | 29        | 737 | 1.00    | 1.49   |
| 2½  | 63.5  | 3.00    | 76.2  | 150     | 1.03 | 5           | 127 | 29        | 737 | 1.46    | 2.17   |
| 3   | 76.2  | 3.51    | 89.2  | 150     | 1.03 | 6           | 140 | 29        | 737 | 1.95    | 2.90   |
| 4   | 101.6 | 4.55    | 115.6 | 150     | 1.03 | 7           | 191 | 29        | 737 | 2.59    | 3.85   |
| 5   | 127.0 | 5.66    | 143.8 | 150     | 1.03 | 12          | 305 | 29        | 737 | 3.84    | 5.71   |
| 6   | 152.4 | 6.66    | 169.2 | 150     | 1.03 | 17          | 432 | 29        | 737 | 4.55    | 6.77   |



### **EXSTATIC®**



### Heavy Duty Push-on CHEMICAL TRANSFER

**MULTIPURPOSE** 

CLEANING EQUIPMENT

AIR &

FOOD Transfer

MARINE

Washdown

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **Product Specifications**

DIICATION. Evetatic® hose is for

**APPLICATION:** Exstatic® hose is for tank truck and/or in-plant transfer of dry, bulk foodstuffs where there is a

potential for electrical static build-up.

CONSTRUCTION TUBE:

FDA UHMWPE (static dissipating/static conductive) has FDA/USDA compliant materials

COVER: Blue Plioflex® synthetic rubber (corrugated)/spiral transfer brand (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with double wire helix

**TEMPERATURE:** -25°F to 180°F (-32°C to 82°C)

PACKAGING: 100' length, coiled, polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Plicord® Exstatic® FDA Dry Material handling 150 psi

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure. Use

Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product. See the

Couplings Systems information pages at the back of the catalog.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-608

#### **EXSTATIC®**

| ı   | ID    |      | NOM. OD |     | MAX. WP |     | BEND RADIUS |     | VACUUM HG |         | WEIGHT |  |
|-----|-------|------|---------|-----|---------|-----|-------------|-----|-----------|---------|--------|--|
| in. | mm.   | in.  | mm.     | psi | Мра     | in. | mm.         | in. | mm.       | lb./ft. | kg./m. |  |
| 2   | 50.8  | 2.50 | 63.5    | 150 | 1.03    | 8   | 203         | 29  | 737       | 1.07    | 1.59   |  |
| 3   | 76.2  | 3.56 | 90.4    | 150 | 1.03    | 12  | 305         | 29  | 737       | 1.83    | 2.72   |  |
| 4   | 101.6 | 4.59 | 116.6   | 150 | 1.03    | 16  | 406         | 29  | 737       | 2.49    | 3.71   |  |
| 5   | 127.0 | 5.67 | 144.0   | 150 | 1.03    | 20  | 508         | 29  | 737       | 3.69    | 5.49   |  |



### FOOD

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

#### **FOOD**

Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### HARVEST™



### **Product Specifications**

**APPLICATION:** For tank truck and/or in-plant applications for the transfer of dry, non-oily bulk foodstuffs.

CONSTRUCTION

**TUBE:** FDA, White Pureten<sup>™</sup> (natural rubber) (FDA/USDA compliant and conforms to 3-A Sanitary

Standard 18-03)

**COVER:** Gray Versigard® synthetic rubber (corrugated)/orange branding tape (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with double galvanized wire helix

**TEMPERATURE:** -25°F to 180°F (-32°C to 82°C)

PACKAGING: 100' length, coiled, polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Harvest™ 150 psi WP; FDA/USDA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-627

| HARV | EST™  |         |       |         |      |             |     |           |     |         |        |
|------|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| ID   |       | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
| in.  | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 2    | 50.8  | 2.73    | 69.3  | 150     | 1.03 | 5           | 127 | 29        | 737 | 1.57    | 2.34   |
| 3    | 76.2  | 3.74    | 95.0  | 150     | 1.03 | 7           | 178 | 29        | 737 | 2.32    | 3.45   |
| 4    | 101.6 | 4.78    | 121.4 | 150     | 1.03 | 10          | 254 | 29        | 737 | 3.44    | 5.12   |
| 5    | 127.0 | 5.91    | 150.1 | 150     | 1.03 | 15          | 381 | 29        | 737 | 4.76    | 7.08   |



## NUTRIFLO® SUCTION AND DISCHARGE HOSE



#### Heavy Duty Push-on CHEMICAL TRANSFER

**MULTIPURPOSE** 

CLEANING EQUIPMENT

AIR &

FOOD Transfer Washdown

MARINE

MATERIAL

HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

VEYANCE

Discharge Suction & Discharge Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## **Product Specifications**

APPLICATION:

For handling almost every type of dry bulk food material or liquid in gravity flow and vacuum

service. Nutriflo conforms to USDA Meat and Poultry, 3-A Sanitary, and FDA Standards and is used for the transmission of raw and pasteurized milk and other high water content dairy items.

CONSTRUCTION

**TUBE:** Clear Pliovic® (FDA, 3-A, USDA compliant), NSF-61

**COVER:** Clear Pliovic

**REINFORCEMENT:** White or Clear high-density Pliovic® helix

TEMPERATURE: -15°F to 158°F (-26°C to 70°C)

PACKAGING: 100' length, coiled, polywrapped

BRANDING: Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 586-416 (white) 586-421 (clear)

#### **NUTRIFLO® SUCTION AND DISCHARGE**

| - 1  | D     | NOM. OD |       | MAX. WP BEND RA |      | RADIUS | VACU | JM HG | WE  | IGHT    |        |
|------|-------|---------|-------|-----------------|------|--------|------|-------|-----|---------|--------|
| in.  | mm.   | in.     | mm.   | psi             | Мра  | in.    | mm.  | in.   | mm. | lb./ft. | kg./m. |
| 3/4  | 19.1  | 0.99    | 25.2  | 120             | 0.83 | 3      | 83   | 29    | 737 | 0.18    | 0.27   |
| 1    | 25.4  | 1.24    | 31.5  | 106             | 0.73 | 5      | 114  | 29    | 737 | 0.26    | 0.39   |
| 11/4 | 31.8  | 1.55    | 39.4  | 99              | 0.68 | 5      | 127  | 29    | 737 | 0.36    | 0.54   |
| 1½   | 38.1  | 1.78    | 45.2  | 89              | 0.61 | 6      | 152  | 29    | 737 | 0.43    | 0.64   |
| 2    | 50.8  | 2.37    | 60.2  | 79              | 0.54 | 8      | 203  | 29    | 737 | 0.67    | 1.00   |
| 2½   | 63.5  | 2.89    | 73.4  | 65              | 0.45 | 10     | 254  | 29    | 737 | 0.89    | 1.32   |
| 3    | 76.2  | 3.48    | 88.4  | 65              | 0.45 | 12     | 305  | 29    | 737 | 1.15    | 1.71   |
| 4    | 101.6 | 4.50    | 114.3 | 55              | 0.38 | 16     | 406  | 29    | 737 | 1.65    | 2.46   |
| 6    | 152.4 | 6.63    | 168.4 | 47              | 0.32 | 36     | 914  | 29    | 737 | 3.39    | 5.04   |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

#### **FOOD**

Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## NUTRIFLEX™ SUCTION AND DISCHARGE HOSE



#### **Product Specifications**



**APPLICATION:** Nutriflex™ S&D hose is capable of handling almost every type of dry bulk food material or liquid in

gravity flow and vacuum service. Nutriflex conforms to USDA Meat and Poultry, 3-A Sanitary, and FDA Standards and is used for transmission of raw and pasteurized milk and other high water

content dairy items.

CONSTRUCTION

TUBE: Clear Pliovic® (FDA, 3-A, USDA compliant), NSF-61

**COVER:** Clear Pliovic (corrugated construction)

REINFORCEMENT: Clear high-density rigid Pliovic® helix

**TEMPERATURE**: -15°F to 158°F (-26°C to 70°C)

PACKAGING: 100' length, coiled, polywrapped

BRANDING: Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 586-417 (white) 586-422 (clear)

#### NUTRIFLEX™ SUCTION AND DISCHARGE

| ı    | D     | NOM. OD |       | MAX | MAX. WP BEND RAD |     | RADIUS | VACUI | JM HG | WE      | GHT    |
|------|-------|---------|-------|-----|------------------|-----|--------|-------|-------|---------|--------|
| in.  | mm.   | in.     | mm.   | psi | Мра              | in. | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 1    | 25.4  | 1.29    | 32.8  | 60  | 0.41             | 2   | 38     | 29    | 737   | 0.22    | 0.33   |
| 11/4 | 31.8  | 1.56    | 39.6  | 50  | 0.34             | 3   | 64     | 29    | 737   | 0.28    | 0.42   |
| 1½   | 38.1  | 1.88    | 47.8  | 50  | 0.34             | 4   | 81     | 29    | 737   | 0.31    | 0.46   |
| 2    | 50.8  | 2.43    | 61.7  | 40  | 0.28             | 4   | 81     | 29    | 737   | 0.51    | 0.76   |
| 2½   | 63.5  | 3.00    | 76.2  | 35  | 0.24             | 5   | 114    | 29    | 737   | 0.82    | 1.22   |
| 3    | 76.2  | 3.58    | 90.9  | 35  | 0.24             | 7   | 165    | 29    | 737   | 1.05    | 1.56   |
| 4    | 101.6 | 4.71    | 119.6 | 35  | 0.24             | 10  | 264    | 29    | 737   | 1.67    | 2.49   |
| 5    | 127.0 | 5.62    | 142.8 | 25  | 0.17             | 30  | 747    | 29    | 737   | 2.03    | 3.02   |
| 6    | 152.4 | 6.72    | 170.7 | 25  | 0.17             | 30  | 747    | 29    | 737   | 2.27    | 3.38   |



## NUTRIFLEX® STATIC WIRE



#### **Product Specifications**

**APPLICATION:** For handling almost every type of dry bulk food material or liquid in gravity flow and vacuum

service. Nutriflex Static Wire conforms to USDA Meat and Poultry, 3-A Sanitary, and FDA Standards

and is recommended for transmission of powder pellets or granular materials.

CONSTRUCTION

**TUBE:** Clear Pliovic® (FDA, 3-A, USDA compliant), NSF-61

COVER: Clear Pliovic (corrugated construction) static wire placed between the tube and cover

**REINFORCEMENT:** Clear, high-density Pliovic® helix

**TEMPERATURE:** -15°F to 158°F (-26°C to 70°C)

PACKAGING: 100' length, coiled, polywrapped

BRANDING: Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 586-472

NUTRIFLEX® STATIC WIRE

| 1    | D     | NOM  | 1. OD | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|------|-------|------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in.  | mm.   | in.  | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1    | 25.4  | 1.30 | 33.0  | 60      | 0.41 | 2           | 38  | 29        | 737 | 0.23    | 0.34   |
| 11/4 | 31.8  | 1.56 | 39.6  | 50      | 0.34 | 3           | 64  | 29        | 737 | 0.29    | 0.43   |
| 1½   | 38.1  | 1.84 | 46.8  | 50      | 0.34 | 4           | 81  | 29        | 737 | 0.36    | 0.54   |
| 1¾   | 44.5  | 2.09 | 53.1  | 45      | 0.31 | 4           | 81  | 29        | 737 | 0.40    | 0.60   |
| 2    | 50.8  | 2.43 | 61.7  | 40      | 0.28 | 4           | 89  | 29        | 737 | 0.52    | 0.77   |
| 2½   | 63.5  | 3.00 | 76.2  | 35      | 0.24 | 5           | 114 | 29        | 737 | 0.80    | 1.19   |
| 3    | 76.2  | 3.58 | 90.9  | 35      | 0.24 | 7           | 165 | 29        | 737 | 1.09    | 1.62   |
| 4    | 101.6 | 4.65 | 118.1 | 35      | 0.24 | 11          | 264 | 29        | 737 | 1.51    | 2.25   |
| 5    | 127.0 | 5.75 | 146.1 | 35      | 0.24 | 22          | 559 | 29        | 737 | 2.15    | 3.20   |
| 6    | 152.4 | 6.87 | 174.5 | 25      | 0.17 | 30          | 747 | 28        | 711 | 2.98    | 4.43   |

For Goodyear Engineered Products food hose compliance information, see Appendix C.

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

**FOOD** 

Transfer

Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLICORD® BLUE FLOUR



#### **Product Specifications**



APPLICATION: Tank truck or in-plant service hose is for discharge transfer of abrasive materials and dry foods

such as flour, cake mixes, etc.

CONSTRUCTION TUBE:

: 3/16" gauge white Pureten™ tube (FDA compliant)

**COVER:** Blue Plioflex® rubber (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with 2 antistatic wires

**TEMPERATURE:** -40°F to 180°F (-40°C to 82°C)

PACKAGING: 100' length, coiled, polywrapped

BRANDING (SPIRAL): Example: Goodyear® Plicord® Blue Flour Discharge FDA 150 psi

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-503

#### PLICORD® BLUE FLOUR

| 1   | D     | NOM  | NOM. OD |     | . WP | WEIGHT  |        |  |
|-----|-------|------|---------|-----|------|---------|--------|--|
| in. | mm.   | in.  | mm.     | psi | Мра  | lb./ft. | kg./m. |  |
| 2   | 50.8  | 2.68 | 68.1    | 150 | 1.03 | 1.39    | 2.07   |  |
| 3   | 76.2  | 3.69 | 93.7    | 150 | 1.03 | 2.02    | 3.01   |  |
| 4   | 101.6 | 4.71 | 119.6   | 150 | 1.03 | 2.63    | 3.91   |  |
| 5   | 127.0 | 5.72 | 145.3   | 150 | 1.03 | 3.27    | 4.87   |  |



# PLICORD® BREWLINE®



General Purpose Heavy Duty Push-on

**MULTIPURPOSE** 

CHEMICAL TRANSFER

AIR &

CLEANING EQUIPMENT

> FOOD Transfer

Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

#### **Product Specifications**

APPLICATION: A qualit

A quality discharge hose designed specifically for the highly demanding service of transferring

non-oily liquid products in wineries and breweries.

CONSTRUCTION

TUBE: White chlorobutyl rubber (FDA/USDA compliant and conforms to 3-A Sanitary Standard 18-03)

**COVER:** Red Versigard® with a white spiral stripe (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric, 4 plies to 1½" I.D.; 6 plies over 1½" I.D.

**TEMPERATURE:** -40°F to 220°F (-40°C to 104°C)

PACKAGING: 100' length, coiled, polywrapped

**BRANDING:** Example: Goodyear® Plicord® Brewline® hose 250 psi; FDA, 3-A, and USDA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-885

#### PLICORD® BREWLINE®

| ı    | D     | NOM  | I. OD | MAX | . WP | WEI     | WEIGHT |  |  |
|------|-------|------|-------|-----|------|---------|--------|--|--|
| in.  | mm.   | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. |  |  |
| 3/4  | 19.1  | 1.34 | 34.0  | 250 | 1.72 | 0.54    | 0.80   |  |  |
| 1    | 25.4  | 1.69 | 42.9  | 250 | 1.72 | 0.81    | 1.21   |  |  |
| 11/4 | 31.8  | 2.00 | 50.8  | 250 | 1.72 | 1.05    | 1.56   |  |  |
| 1½   | 38.1  | 2.23 | 56.6  | 250 | 1.72 | 1.19    | 1.77   |  |  |
| 2    | 50.8  | 2.88 | 73.2  | 250 | 1.72 | 1.86    | 2.77   |  |  |
| 2½   | 63.5  | 3.51 | 89.2  | 250 | 1.72 | 2.66    | 3.96   |  |  |
| 3    | 76.2  | 4.09 | 103.9 | 250 | 1.72 | 3.57    | 5.31   |  |  |
| 4    | 101.6 | 5.31 | 134.9 | 250 | 1.72 | 5.43    | 8.08   |  |  |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

#### **FOOD**

Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLICORD® EXTREMEFLEX™ FOOD GRADE



#### **Product Specifications**



**APPLICATION:** A high-tech, flexible corrugated hose with pretzel-like agility and proven performance. Best of all,

it's available at a non-corrugated price, making it a great value. With ExtremeFlex, there's even more to appreciate:

• Flexible Handling: Easier to move in and out of tight spaces and around sharp corners.

• Lightweight: Easier to lift and carry, so there are fewer workplace injuries.

• Lower Force to Bend: Easier to connect and disconnect, keeping productivity high.

CONSTRUCTION

TUBE: White Chemivic™ synthetic rubber (FDA/USDA compliant and conforms to 3-A Sanitary Standard 18-03)

**COVER:** White or gray Chemivic<sup>™</sup> corrugated synthetic rubber (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with galvanized wire helix

**TEMPERATURE**: - 25°F to 212°F (- 32°C to 100°C)

PACKAGING: Coiled & polywrapped

BRANDING (SPIRAL): Goodyear® Plicord® ExtremeFlex® Food Grade 150 PSI WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendations and coupling procedure

NON-STOCK/SIZES: 400' minimum order

**ORDER CODES:** 549-462 (white) 549-164 (gray)

#### PLICORD® EXTREMEFLEX™ FOOD GRADE

| I | ı   | ID NOM. OD |     | MAX. WP |     | BEND RADIUS |     | VACUUM HG |     | WEIGHT |         |       |
|---|-----|------------|-----|---------|-----|-------------|-----|-----------|-----|--------|---------|-------|
| I | in. | mm.        | in. | mm.     | psi | Мра         | in. | mm.       | in. | mm.    | lb./ft. | kg./m |
|   | 2   | 51.2       | 2.4 | 62.0    | 150 | 1.03        | 2   | 51        | 29  | 737    | 1.00    | 1.48  |
|   | 2½  | 63.7       | 3.0 | 77.5    | 150 | 1.03        | 2½  | 63        | 29  | 737    | 1.61    | 2.38  |
|   | 3   | 76.1       | 3.5 | 89.9    | 150 | 1.03        | 3   | 76        | 29  | 737    | 1.89    | 2.79  |
|   | 4   | 102.1      | 4.6 | 116.6   | 150 | 1.03        | 4   | 102       | 29  | 737    | 2.69    | 3.98  |





# PLICORD® WINELINE®





#### **Product Specifications**

APPLICATION: A quality, non-toxic hose for handling wine, potable water, and other non-oily liquid food products

where the hose must meet FDA requirements. For discharge service and suction service up to 20"

hg vacuum at ambient temperature.

CONSTRUCTION

TUBE: White chlorobutyl rubber (FDA/USDA compliant and conforms to 3-A Sanitary Standard 18-03)

**COVER:** White Versigard® rubber with a purple spiral stripe (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric, 4 plies to 1½" I.D.; 6 plies over 1½" I.D.

**TEMPERATURE:** -40°F to 220°F (-40°C to 104°C)

PACKAGING: 100' length, coiled, polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Plicord® Wineline® hose 250 psi; FDA, 3-A, and USDA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-887

PLICORD® WINELINE®

| ı    | D     | NOM  | 1. OD | MAX | . WP | WEIGHT  |        |  |
|------|-------|------|-------|-----|------|---------|--------|--|
| in.  | mm.   | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 3/4  | 19.1  | 1.39 | 35.3  | 250 | 1.72 | 0.60    | 0.89   |  |
| 1    | 25.4  | 1.69 | 42.9  | 250 | 1.72 | 0.80    | 1.19   |  |
| 11/4 | 31.8  | 2.00 | 50.8  | 250 | 1.72 | 1.04    | 1.55   |  |
| 1½   | 38.1  | 2.23 | 56.6  | 250 | 1.72 | 1.20    | 1.79   |  |
| 2    | 50.8  | 2.92 | 74.2  | 250 | 1.72 | 1.98    | 2.95   |  |
| 2½   | 63.5  | 3.50 | 88.9  | 250 | 1.72 | 2.65    | 3.94   |  |
| 3    | 76.2  | 4.09 | 103.9 | 250 | 1.72 | 3.55    | 5.28   |  |
| 4    | 101.6 | 5.30 | 134.6 | 250 | 1.72 | 5.40    | 8.04   |  |

For Goodyear Engineered Products food hose compliance information, see Appendix C.

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

#### **FOOD**

Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# PLIOVIC® FG (FDA-3A)

#### **Product Specifications**



**APPLICATION:** A versatile, lightweight, reinforced tubing for the food and beverage, general air, multipurpose, pharmaceutical and cosmetics industries; computer component manufacturers; textile mills; and air-actuated equipment.

Clear Pliovic® compound, conforms to FDA, USDA, NSF-61 and 3-A standards

CONSTRUCTION TUBE:

Clear Pliovic compound, conforms to FDA, USDA, NSF-61 and 3-A standards

COVER:

Spiral synthetic yarn

REINFORCEMENT:

-10°F to 158°F (-23°C to 70°C)

TEMPERATURE:

PACKAGING:

1/4" – 5/8" 300' Bagel Pack, one piece 3/4" and 1" 200' Bagel Pack, one piece

Example: Goodyear® Pliovic® FG FDA & 3-A Compliant 3/8" ID (9.5 mm) 250 psi WP (1.7 Mpa). Made in USA

BRANDING:

Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

COUPLINGS: NON-STOCK/SIZES:

Contact customer service for availability on cut, coiled, and tied hose lengths.

**ORDER CODES:** 

540-337

#### PLIOVIC® FG

| ID   |       | NON  | I. OD | . OD MAX |      | WEI     | WEIGHT |  |
|------|-------|------|-------|----------|------|---------|--------|--|
| in.  | mm.   | in.  | mm.   | psi      | Мра  | lb./ft. | kg./m. |  |
| 1/4  | 6.4   | 0.44 | 11.2  | 250      | 1.72 | 0.05    | 0.07   |  |
| 5/16 | 7.9   | 0.50 | 12.7  | 250      | 1.72 | 0.07    | 0.10   |  |
| 3/8  | 9.5   | 0.59 | 15.0  | 250      | 1.72 | 0.08    | 0.12   |  |
| 1/2  | 12.7  | 0.75 | 19.1  | 200      | 1.38 | 0.12    | 0.18   |  |
| 5/8  | 15.9  | 0.87 | 22.1  | 200      | 1.38 | 0.15    | 0.22   |  |
| 3/4  | 19.1  | 1.02 | 25.9  | 150      | 1.03 | 0.19    | 0.28   |  |
| 1    | 25.4  | 1.34 | 34.0  | 125      | 0.86 | 0.31    | 0.46   |  |
| 11/4 | 31.75 | 1.72 | 43.6  | 125      | 0.86 | 0.60    | 0.89   |  |
| 1½   | 38.1  | 1.98 | 50.2  | 125      | 0.86 | 0.72    | 1.07   |  |
| 2    | 50.8  | 2.51 | 63.8  | 100      | 0.69 | 1.00    | 1.48   |  |



## POTABLE WATER



# Push-on CHEMICAL TRANSFER

**MULTIPURPOSE** 

CLEANING EQUIPMENT

AIR &

Heavy Duty

#### FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Vashdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

#### **Product Specifications**

tions

**APPLICATION:** Designed to handle water suitable for drinking. Used in oilfield or industrial applications. Used in

discharge service only. This hose is not NSF approved.

CONSTRUCTION

**TUBE:** White natural rubber (complies with FDA requirements)

**COVER:** Blue SBR (smooth, wrapped impression)

**REINFORCEMENT:** Synthetic textile fabric plies

**TEMPERATURE:** -40°F to 180°F (-40°C to 82°C)

PACKAGING: Coiled-polyethylene wrapped/bagel pack

**BRANDING (SPIRAL):** Example: Goodyear® Potable Water Hose

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 542-445

#### **POTABLE WATER**

| ı   | D     | NOM  | l. OD | MAX | . WP | WEIGHT  |        |  |
|-----|-------|------|-------|-----|------|---------|--------|--|
| in. | mm.   | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 1   | 25.4  | 1.49 | 37.9  | 250 | 1.72 | 0.55    | 0.82   |  |
| 1½  | 38.1  | 1.98 | 50.3  | 250 | 1.38 | 0.77    | 1.15   |  |
| 2   | 50.8  | 2.50 | 63.5  | 150 | 1.03 | 0.96    | 1.43   |  |
| 3   | 76.2  | 3.58 | 91.0  | 150 | 1.03 | 1.72    | 2.56   |  |
| 4   | 101.6 | 4.56 | 115.8 | 150 | 1.03 | 1.99    | 2.96   |  |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

#### FOOD

Transfer

Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## VINTNER™



### **Product Specifications**



APPLICATION: For handling in-plant and/or tank truck transfer of wine, beer, potable water and other nonoily,

liquid foodstuffs.

CONSTRUCTION

**TUBE:** White Chlorobutyl (FDA/USDA compliant and conforms to 3-A Sanitary Standard 18-03)

COVER: Gray Versigard® synthetic rubber (wrapped) / purple branding tape

**REINFORCEMENT:** Spiral-plied synthetic fabric with Monofilament Helix

TEMPERATURE: - 30°F to 220°F (- 34°C to 104°C)

PACKAGING: 100' length, coiled, polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Plicord® Vintner™ 250 psi; FDA, 3 - A, and USDA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-886

| VINTN      | ER™  |         |      |             |      |           |     |        |     |         |        |
|------------|------|---------|------|-------------|------|-----------|-----|--------|-----|---------|--------|
| ID NOM. OD |      | MAX. WP |      | BEND RADIUS |      | VACUUM HG |     | WEIGHT |     |         |        |
| in.        | mm.  | in.     | mm.  | psi         | Мра  | in.       | mm. | in.    | mm. | lb./ft. | kg./m. |
| 1          | 25.4 | 1.62    | 41.1 | 250         | 1.72 | 3         | 76  | 27     | 686 | 0.71    | 1.06   |
| 1½         | 38.1 | 2.11    | 53.6 | 250         | 1.72 | 4         | 102 | 27     | 686 | 0.98    | 1.46   |
| 2          | 50.8 | 2.68    | 68.1 | 250         | 1.72 | 7         | 178 | 27     | 686 | 1.38    | 2.05   |
| 2½         | 63.5 | 3.21    | 81.5 | 250         | 1.72 | 10        | 254 | 27     | 686 | 1.78    | 2.65   |
| 3          | 76.2 | 3.85    | 97.8 | 250         | 1.72 | 12        | 305 | 27     | 686 | 2.59    | 3.86   |



#### **FOOD TRANSFER**

Refer to Food Hose Recommendation Guide below for specific hose application capabilities.

| FU  | OD HOSE KE  | COMINE                                    | NUALION                                | N GUIDE                           |  |
|---|---|---|--|-----------------------------------|--|
| TUBE: Compound<br>TUBE: Color             | CHEMIVIC<br>WHITE   | PURETEN<br>TAN                            | PURETEN<br>WHITE                       | CHLOROBUTYL<br>WHITE              | PLIOVIC<br>CLEAR                                       |
| HOSE NAME                                 | WHITE FLEXWING, WHITE FLEXTRA,<br>GRAY FLEXTRA LT, GRAY FOOD,<br>WHITE SOFTWALL | FLEXWING,<br>TAN FLEXTRA,<br>TAN SOFTWALL | BLUE<br>Flour<br>Discharge,<br>Harvest | WINELINE,<br>Brewline,<br>Vintner | PLIOVIC FG,<br>Nutriflo,<br>Nutriflex,<br>Nutriflex SW |
| FOOD                                      |   |   |  |                                   |  |
| (B)                                       |   | Δ.  |  | V                                 | D  |
| Beet Sugar, granular<br>Buttermilk, dried | I<br>X  | A<br>A                                    | A<br>A                                 | X<br>X                            | B<br>B   |
| (C)<br>Cane Sugar, granular               | 1   | Α   | А                                      | χ                                 | В  |
| Cashew Nut Oil                            | A   | χ   | Χ                                      | χ                                 | Χ  |
| Castor Oil                                | A   | χ   | Χ                                      | χ                                 | Χ  |
| Citric Acid                               | A   | Α   | Α                                      | Α                                 | В  |
| Cocoa Butter                              | A   | χ   | Χ                                      | χ                                 | 1  |
| Coconut Oil                               | A   | χ   | Χ                                      | χ                                 | Χ  |
| Corn Oil                                  | A   | Χ   | Χ                                      | Χ                                 | Χ  |
| Cottonseed Oil                            | A   | χ   | Χ                                      | χ                                 | Χ  |
| (F)                                       |   |   |  |                                   |  |
| Fish Meal                                 | A   | χ   | Х                                      | Χ                                 | В  |
| Flour                                     | 1   | Α   | Α                                      | χ                                 |  |
| (G)                                       |   |   |  |                                   |  |
| Grape Juice                               | A   | χ   | Х                                      | Α                                 | В  |
| (L)                                       |   |   |  |                                   |  |
| Lactic Acid                               | A   | В   | В                                      | В                                 | Χ  |
| Lard Oil                                  | A   | X   | X                                      | X                                 | X  |
| Linseed Oil                               | A   | X   | X                                      | X                                 | X  |
| Liquor (spirits)                          | В   | X   | X                                      | X                                 | В  |
| (M)                                       | -   |   |  |                                   | _  |
| Milk                                      | A   | χ   | Χ                                      | Α                                 | В  |
| Mineral Oil                               | A   | X   | X                                      | X                                 | В  |
| Molasses                                  | A   | A   | Ä                                      | Ä                                 | A  |
| (0)                                       | ,,  |   |  |                                   |  |
| Olive Oil                                 | A   | χ   | Х                                      | χ                                 | Х  |
| Orange Juice                              | Ä   | X   | X                                      | Ä                                 | A  |
| (P)                                       | , A   | X   | , A                                    | , ,                               | N .  |
| Palm Oil                                  | A   | χ   | Х                                      | χ                                 | Х  |
| Paraffin                                  | A   | X   | X                                      | X                                 | В  |
| Peanut Oil                                | Ä   | X   | X                                      | X                                 | X  |
| Potato Flour                              | n<br>I  | Â   | A                                      | X                                 | A  |
|   | '   | , A                                       | , n                                    | Λ                                 | , A  |
| (S)                                       |   | Λ   | ٨                                      | v                                 | Δ  |
| Salt, granular, table grade               | 1   | A   | A                                      | X                                 | A  |
| Shortening<br>Soybean Oil                 | A<br>A  | X<br>X                                    | X<br>X                                 | X<br>X                            | X  |
| Sucrose                                   |   |   |  |                                   |  |
|   | A   | A   | A                                      | X                                 | A  |
| Sugar, granulated                         | I<br>A  | A<br>A                                    | A                                      | X<br>A                            | A  |
| Sugar, syrup                              | А   | A   | А                                      | A                                 | A  |
| (T)                                       |   | V   | V                                      | V                                 | V  |
| Tallow                                    | A   | X   | X                                      | X                                 | Х  |
| Tomato Juice, paste                       | A   | X   | X                                      | I                                 | В  |
| & puree sauce                             |   |   |  |                                   |  |
| (V)                                       |   |   |  |                                   | .,   |
| Vegetable Oil                             | A   | X   | X                                      | X                                 | X  |
| A.P.                                      | A   | Χ   | X                                      | А                                 | A  |
| Vinegar                                   | n   |   |  |                                   |  |
| (W)                                       |   |   |  |                                   |  |
| (W)<br>Water, Potable                     | A   | Х   | X                                      | А                                 | А  |
| (W)                                       |   | X<br>X<br>X                               | X<br>X<br>X                            | A<br>X<br>A                       | A<br>X   |

Key: A - Excellent; B - Good; X - Not recommended; I - Insufficient information. Note: For temperatures in excess of 150°F, consult Customer Service.



AIR & MULTIPURPOSE General Purpose Heavy Duty

> CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

#### FOOD Transfer

Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## FOOD WASHDOWN



|                      | Page | Non-<br>Marking | Superior Oil<br>Resistance Tube<br>and Cover | Superior<br>Abrasion Cover | Anti<br>Microbial<br>Cover | Tapered<br>Nozzle | Wire | Textile |
|----------------------|------|-----------------|--|----------------------------|----------------------------|-------------------|------|---------|
| Blue Fortress® 300   | 86   | Yes             | Yes  | Yes                        | Yes                        |                   |      | Yes     |
| Fortress® 300        | 83   | Yes             | Yes  | Yes                        | Yes                        |                   |      | Yes     |
| Fortress® 1000       | 84   | Yes             | Yes  | Yes                        | Yes                        |                   |      | Yes     |
| Fortress® 3000       | 85   | Yes             | Yes  | Yes                        | Yes                        |                   | Yes  |         |
| Gauntlet® 1500       | 61   | Yes*            | Yes  | Yes                        |                            |                   |      | Yes     |
| Plicord® Washdown    | 238  |                 |  |                            |                            | Yes               |      | Yes     |
| Sani-Wash™ 300       | 88   | Yes             |  |                            |                            |                   |      | Yes     |
| Spectra® 300         | 87   | Yes             | Yes  |                            |                            |                   |      | Yes     |
| Super Sani-Wash™ 300 | 89   | Yes             |  |                            | Yes                        |                   |      | Yes     |

\*Non-black Colors



### FORTRESS® 300 WITH @ Microban PRODUCT PROTECTION





#### **Product Specifications**

APPLICATION:

A high-quality construction for hot water up to 200°F (93°C) cleanup service in food processing plants, dairies, packing houses, bottling plants, breweries, canneries and creameries. Its super abrasion and oil-resistant cover provides maximum protection against the adverse affects of oil and animal fats. The cover of our Fortress® 300 hose incorporates Microban's®\* antimicrobial built-in product protection.

CONSTRUCTION

TUBE: Black Nitrile synthetic rubber

COVER: Yellow Carbryn<sup>™</sup> synthetic rubber, RMA Class A (High Oil Resistance) with Microban<sup>®</sup>

product protection

REINFORCEMENT: Spiral synthetic yarn

-20°F to 200°F (-29°C to 93°C) **TEMPERATURE:** 

PACKAGING: 1/2" - 3/4" 500' reels, maximum 3 pieces, 50' increments 450' reels, maximum 3 pieces, 50' increments

BRANDING: Example: Fortress® 300 with Microban® Antimicrobial Product Protection 3/8" 300 psi WP.

Made in USA. Goodyear®

**COUPLINGS:** Use Goodyear Engineered Products pressure washing fittings with this product. See the Coupling

Systems information pages at the back of the catalog for available sizes. Refer to the Goodyear Engineered Products Hose Assembly Manual for crimp procedures. Coupled lengths with MxMS

fittings and Kink Guards available.

NON-STOCK/SIZES: Contact customer service for availability on cut, coiled and tied hose lengths.

**ORDER CODES:** 569-120 (Yellow)

#### FORTRESS® 300

| ID  |      | NOM. OD |      | MAX | . WP | WEIGHT  |        |  |
|-----|------|---------|------|-----|------|---------|--------|--|
| in. | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |  |
| 1/2 | 12.7 | 0.90    | 22.8 | 300 | 2.07 | 0.29    | 0.43   |  |
| 5/8 | 15.9 | 1.06    | 27.0 | 300 | 2.07 | 0.36    | 0.54   |  |
| 3/4 | 19.1 | 1.19    | 30.2 | 300 | 2.07 | 0.41    | 0.61   |  |
| 1   | 25.4 | 1.50    | 38.1 | 300 | 2.07 | 0.60    | 0.89   |  |

<sup>\*</sup>Microban\* antimicrobial product protection inhibits the growth of bacteria, mold and fungi that can cause odor, stains or degradation of the hose cover.

Microban® is intended to protect the hose cover only. It is not a substitute for good sanitary practices.

GOODFYEAR

AIR & **MULTIPURPOSE** Heavy Duty

**CHEMICAL** 

**CLEANING EQUIPMENT** 

**FOOD** Transfer Washdown

MARINE

MATERIAL HANDLING Bulk Transfer Cement & Concrete

MINING

PETROLEUM

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

Suction &

WELDING

COUPLING

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# FORTRESS® 1000 WITH Microban PRODUCT PROTECTION



#### **Product Specifications**



APPLICATION: For use on pressure washer machines with working pressures up to 1000 psi. Applications include

washdown service in food processing plants, dairies, packing houses, bottling plants, breweries, canneries and creameries. Its super abrasion and oil-resistant cover provides maximum protection against the adverse affects of oil and animal fats. The cover of our Fortress® Washdown hose incorporates Microban's®\* antimicrobial built-in product protection.

CONSTRUCTION

**TUBE:** Nitrile synthetic rubber

**COVER:** Carbryn™ synthetic rubber, RMA Class A (High Oil Resistance) with Microban® product protection

**REINFORCEMENT:** Braided (1) synthetic yarn

**TEMPERATURE**: -20°F to 200°F (-29°C to 93°C)

**PACKAGING:** 500' reels, maximum 3 pieces, 50' increments: coupled lengths available

**BRANDING:** Example: Fortress® 1000 with Microban® Antimicrobial Product Protection 3/8" 1000 psi WP.

Made in USA Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 536-575 (yellow) 536-583 (red) 536-481 (blue)

#### FORTRESS® 1000

| ID  |      | NOM. OD |      | MAX  | . WP | WEIGHT  |        |  |
|-----|------|---------|------|------|------|---------|--------|--|
| in. | mm.  | in.     | mm.  | psi  | Мра  | lb./ft. | kg./m. |  |
| 1/4 | 6.4  | 0.59    | 15.0 | 1000 | 6.9  | 0.12    | 0.18   |  |
| 3/8 | 9.5  | 0.75    | 19.1 | 1000 | 6.9  | 0.18    | 0.27   |  |
| 1/2 | 12.7 | 0.86    | 21.8 | 1000 | 6.9  | 0.20    | 0.30   |  |
| 3/4 | 19.1 | 1.20    | 30.5 | 1000 | 6.9  | 0.42    | 0.62   |  |

<sup>\*</sup>Microban\* antimicrobial product protection inhibits the growth of bacteria, mold and fungi that can cause odor, stains or degradation of the hose cover.

Microban® is intended to protect the hose cover only. It is not a substitute for good sanitary practices.



# FORTRESS® 3000 WITH Microban PRODUCT PROTECTION





#### **Product Specifications**

APPLICATION:

Fortress® 3000 is for use on pressure washer machines with working pressures up to 3000 psi. Applications include washdown service in food processing plants, dairies, packing houses, bottling plants, breweries, canneries and creameries. Its super abrasion and oil-resistant cover provides maximum protection against the adverse effects of oil and animal fats. The cover of Fortress® Washdown hose incorporates Microban's®\* antimicrobial built-in product protection.

CONSTRUCTION

**TUBE:** Nitrile synthetic rubber

**COVER:** Carbryn<sup>™</sup> synthetic rubber, RMA Class A (High Oil Resistance) with Microban<sup>®</sup> built-in

product protection

**REINFORCEMENT:** Braided (1) steel wire

**TEMPERATURE:** -20°F to 250°F (-29°C to 121°C)

**PACKAGING:** 500' reel, maximum 3 pieces, 50' increments: coupled lengths available

BRANDING: Example: Fortress® 3000 with Microban® Antimicrobial Product Protection 3/8" 3000 psi WP.

Made in USA. Goodyear®

**COUPLINGS:** Use Goodyear Engineered Products pressure washing fittings with this product. See the Coupling

Systems information pages at the back of the catalog for available sizes. Refer to the Goodyear Engineered Products Hose Assembly Manual for crimp procedures. Coupled lengths with MxMS

fittings and Kink Guards available.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 539-400 (Yellow) 539-401 (Blue)

#### FORTRESS® 3000

| ID  |      | NOM. OD |      | MAX  | . WP  | WEIGHT  |        |  |
|-----|------|---------|------|------|-------|---------|--------|--|
| in. | mm.  | in.     | mm.  | psi  | Мра   | lb./ft. | kg./m. |  |
| 1/4 | 6.4  | 0.53    | 13.5 | 3000 | 20.69 | 0.15    | 0.22   |  |
| 3/8 | 9.5  | 0.69    | 17.5 | 3000 | 20.69 | 0.24    | 0.36   |  |
| 1/2 | 12.7 | 0.82    | 20.8 | 3000 | 20.69 | 0.32    | 0.48   |  |

<sup>\*</sup>Microban\* antimicrobial product protection inhibits the growth of bacteria, mold and fungi that can cause odor, stains or degradation of the hose cover.

Microban® is intended to protect the hose cover only. It is not a substitute for good sanitary practices.

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

Discharge Suction &

Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## BLUE FORTRESS® 300 with Microban

WITH FDA COMPLIANT WHITE TUBE



#### **Product Specifications**



**APPLICATION:** A high-quality construction for hot water up to 200°F (93°C) cleanup service in food processing

plants, dairies, packing houses, bottling plants, breweries, canneries and creameries. Its super abrasion and oil-resistant cover provides maximum protection against the adverse effects of oil and animal fats. The cover of our Blue Fortress® 300 hose incorporates Microban's® antimicrobial built-in product protection. The white tube is comprised of FDA compliant materials.

CONSTRUCTION

TUBE: White FDA compliant nitrile synthetic rubber

**COVER:** Blue Carbryn<sup>™</sup> synthetic rubber, RMA Class A (High Oil Resistance) with Microban® product protection

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE:** -20°F to 200°F (-29°C to 93°C)

PACKAGING: Bulk

**BRANDING:** Example: Fortress® 300 with Microban® Antimicrobial Product Protection 3/4" 300 psi WP.

Made in USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**ORDER CODES:** 569-121

#### **BLUE FORTRESS® 300 WITH FDA COMPLIANT WHITE TUBE**

| ID  |      | OD   |      | MAX | . WP | WEIGHT |        |  |
|-----|------|------|------|-----|------|--------|--------|--|
| in. | mm.  | in.  | mm.  | psi | Мра  | lbs/ft | kg./m. |  |
| 1/2 | 12.7 | 0.90 | 22.8 | 300 | 2.07 | 0.30   | 0.45   |  |
| 3/4 | 19.1 | 1.19 | 30.2 | 300 | 2.07 | 0.44   | 0.65   |  |
| 1   | 25.4 | 1.50 | 38.1 | 300 | 2.07 | 0.64   | 0.95   |  |



## SPECTRA® 300



#### **Product Specifications**

**APPLICATION:** A high-quality, economical construction for hot water up to 200°F (93°C) cleanup service in food

processing plants, dairies, packing houses, bottling plants, breweries, canneries and creameries.

CONSTRUCTION

TUBE: Black Nitrile synthetic rubber, RMA Class A (High Oil Resistance), non-FDA

**COVER:** White Chemivic<sup>™</sup> synthetic rubber, RMA Class A (High Oil Resistance)

**REINFORCEMENT:** Spiral synthetic yarn

TEMPERATURE: -20°F to 200°F (-29°C to 93°C)

**PACKAGING:** 1/2"- 3/4" 500' reels, maximum 3 pieces, 50' increments 1" 450' reels, maximum 3 pieces, 50' increments

**BRANDING:** Example: Spectra® (19.1 mm) 300 psi WP. Made in USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 569-019

#### SPECTRA® 300

| ID  |      | NOM. OD |      | MAX | . WP | WEIGHT  |        |  |
|-----|------|---------|------|-----|------|---------|--------|--|
| in. | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |  |
| 1/2 | 12.7 | 0.91    | 23.1 | 300 | 2.07 | 0.27    | 0.40   |  |
| 3/4 | 19.1 | 1.18    | 30.0 | 300 | 2.07 | 0.40    | 0.60   |  |
| 1   | 25.4 | 1.50    | 38.1 | 275 | 1.90 | 0.60    | 0.89   |  |

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

F00D Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## SANI-WASH™ 300



#### **Product Specifications**

**APPLICATION:** An economical hose for hot water washdown up to 205°F cleanup in food processing plants,

dairies, packing houses, bottling plants, breweries, canneries and creameries.

CONSTRUCTION

**TUBE:** Versigard® synthetic rubber

**COVER:** White Versigard® synthetic rubber

**REINFORCEMENT:** Textile reinforced

**TEMPERATURE**: -40°F to 205°F (-40°C to 93°C)

PACKAGING: 1/2"- 3/4" 500' reels, maximum 3 pieces, 50' increments 1" 450' reels, maximum 3 pieces, 50' increments

**BRANDING:** Example: Goodyear® Sani-Wash™ 300 psi WP 3/4" (19.1 mm). Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 569-020

#### SANI-WASH™ 300

| ID  |      | NOM. OD |      | MAX | . WP | WEIGHT  |        |  |
|-----|------|---------|------|-----|------|---------|--------|--|
| in. | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |  |
| 1/2 | 12.7 | 0.84    | 21.3 | 300 | 2.07 | 0.26    | 0.39   |  |
| 5/8 | 15.9 | 1.00    | 25.4 | 300 | 2.07 | 0.31    | 0.46   |  |
| 3/4 | 19.1 | 1.17    | 29.7 | 300 | 2.07 | 0.42    | 0.63   |  |
| 1   | 25.4 | 1.47    | 37.3 | 300 | 2.07 | 0.62    | 0.92   |  |



## SUPER SANI-WASH™ 300



## NEW

#### **Product Specifications**

APPLICATION: An economical hose for hot water washdown up to 200°F cleanup in food processing plants,

dairies, packing houses, bottling plants, breweries, canneries and creameries. The cover of the Super Sani-Wash™ Washdown hose incorporates Microban's® antimicrobial built-in product

protection.

CONSTRUCTION

**TUBE:** Versigard® synthetic rubber

**COVER:** White Versigard® synthetic rubber with Microban® product protection

REINFORCEMENT: Spiral textile reinforced

**TEMPERATURE:** - 40°F to 200°F (- 40°C to 93°C)

PACKAGING: Reels

BRANDING: Example: Goodyear® Super Sani-Wash™ 300 with Microban® antimicrobial product protection 300

PSI WP. 3/4" (19.1 MM). Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix C.

**ORDER CODES:** 569-021

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

#### SUPER SANI-WASH™ 300

| ID  |      | NOM. OD |      | MAX | . WP | WEIGHT  |        |  |
|-----|------|---------|------|-----|------|---------|--------|--|
| in. | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |  |
| 1/2 | 12.7 | 0.84    | 21.3 | 300 | 2.07 | 0.26    | 0.39   |  |
| 3/4 | 19.1 | 1.17    | 29.7 | 300 | 2.07 | 0.42    | 0.63   |  |
| 1   | 25.4 | 1.47    | 37.3 | 300 | 2.07 | 0.62    | 0.92   |  |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

#### MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

**STEAM** 

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## **MARINE**



|   | Page  | SAE | USCG | Hardwall | Softwall |
|---|-------|-----|------|----------|----------|
| Flexshield™ Marine Barrier Hose<br>USCG/SAE J1527 & ISO 7840 Type A1-15 | 97    | Yes | Yes  |          |          |
| Marine Fuel Feed Vent Hose USCG/SAE J1527 Type A2                       | 98    | Yes | Yes  |          |          |
| Marine Fuel Feed Vent Hose USCG/SAE J1527 Type B2                       | 99    | Yes | Yes  |          |          |
| Marine Fuel Line USCG/SAE J1527 & ISO 7840 Type A1                      | 96    | Yes | Yes  |          |          |
| Plicord® Hardwall Wet Exhaust   | 92-93 |     | Yes  | Yes      |          |
| Plicord® SAE J1527 Type A2 (fuel fill)                                  | 91    | Yes | Yes  | Yes      |          |
| Plicord® Softwall Wet Exhaust   | 94-95 |     | Yes  |          | Yes      |



### PLICORD® SAE J1527 TYPE A2 **FUEL FILL**



AIR & **MULTIPURPOSE** Heavy Duty

> **CHEMICAL** TRANSFER

**CLEANING EQUIPMENT** 

> FOOD Transfer Washdown

#### **MARINE**

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

**PETROLEUM** Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

Suction &

WELDING

COUPLING

**APPENDIX** 

#### **Product Specifications**

APPLICATION: The Plicord® SAE J1527 Type A2, ISO 7840 and CE Fuel Fill hose is for marine gasoline tanks.

It is the connection from the boat's fuel fill port down to the boat's fuel tank.

CONSTRUCTION

TUBE: Nitrile synthetic rubber RMA Class A (High Oil Resistance)

COVER: Chemivic<sup>™</sup> synthetic rubber (wrapped impression)

REINFORCEMENT: Spiral-plied synthetic fabric with wire helix

TEMPERATURE: -20°F to 180°F (-29°C to 82°C)

50' exact length, coiled, and polywrapped PACKAGING:

**BRANDING:** Example: Goodyear® SAE J1527, USCG Type A2, ISO 7840

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 543-414

#### PLICORD® SAE J1527 TYPE A2

| ID   |      | NOM. OD |      | MAX. WP |      | VACUUM HG |     | WEIGHT  |        |
|------|------|---------|------|---------|------|-----------|-----|---------|--------|
| in.  | mm.  | in.     | mm.  | psi     | Мра  | in.       | mm. | lb./ft. | kg./m. |
| 11/4 | 31.8 | 1.70    | 43.2 | 100     | 0.69 | 29        | 737 | 0.68    | 1.01   |
| 1½   | 38.0 | 1.86    | 47.1 | 100     | 0.69 | 29        | 737 | 0.65    | 0.97   |
| 11/8 | 47.6 | 2.30    | 58.4 | 100     | 0.69 | 29        | 737 | 0.96    | 1.43   |
| 2    | 50.8 | 2.43    | 61.7 | 50      | 0.34 | 29        | 737 | 1.01    | 1.50   |
| 2¾   | 69.9 | 2.80    | 71.1 | 50      | 0.34 | 29        | 737 | 1.19    | 1.77   |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

#### **MARINE**

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

**STEAM** 

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLICORD® HARDWALL WET EXHAUST



#### **Product Specifications**

**APPLICATION:** For water suction and discharge applications including: engine intake, bilge exhaust, toilet,

holding tank and scupper lines. Also for industrial water suction and discharge applications where unique sizes are required to fit over pipe. Does not meet SAE J2006 R2 Spec.\*

CONSTRUCTION

TUBE: Black Nitrile synthetic rubber RMA Class A (High Oil Resistance)

**COVER:** Black Plioflex® synthetic rubber (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

TEMPERATURE: -20°F to 180°F (-29°C to 82°C)

**PACKAGING:**  $1/2"-5\frac{1}{2}"$  50' exact length, coiled and polywrapped

6"–8" 25' exact length, polywrapped

**BRANDING (SPIRAL):** Example: Industrial ORS/Wet Exhaust Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 543-193 (<6") 541-193 (>6")

\*Spec 542-812 (<6") and 541-812 (>6") meet the SAE J2006 R2 Spec but the tube is non-oil resistant (Class C Oil Resistance)



| ®        |         |       |                |
|----------|---------|-------|----------------|
| PLICORD* | HARDWAL | L WET | <b>EXHAUST</b> |

| ı              | D     | NOM  | I. OD | MAX | . WP | BEND | RADIUS | VACUI | JM HG | WE      | IGHT   |
|----------------|-------|------|-------|-----|------|------|--------|-------|-------|---------|--------|
| in.            | mm.   | in.  | mm.   | psi | Мра  | in.  | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 1/2            | 12.7  | 0.95 | 24.3  | 250 | 1.72 | 2    | 51     | 29    | 737   | 0.35    | 0.52   |
| 5/8            | 15.9  | 1.07 | 27.3  | 200 | 1.38 | 2    | 51     | 29    | 737   | 0.40    | 0.59   |
| 3/4            | 19.0  | 1.19 | 30.4  | 200 | 1.38 | 3    | 76     | 29    | 737   | 0.46    | 0.68   |
| 7/8            | 22.2  | 1.32 | 33.5  | 200 | 1.38 | 3    | 76     | 29    | 737   | 0.52    | 0.77   |
| 1              | 25.4  | 1.44 | 36.6  | 150 | 1.03 | 3    | 76     | 29    | 737   | 0.57    | 0.84   |
| 11/8           | 28.6  | 1.58 | 40.3  | 150 | 1.03 | 4    | 102    | 29    | 737   | 0.64    | 0.95   |
| 11/4           | 31.8  | 1.70 | 43.3  | 150 | 1.03 | 4    | 102    | 29    | 737   | 0.70    | 1.04   |
| 15/16          | 33.3  | 1.76 | 44.8  | 125 | 0.86 | 4    | 102    | 29    | 737   | 0.72    | 1.07   |
| 13/8           | 34.9  | 1.82 | 46.3  | 125 | 0.86 | 4    | 102    | 29    | 737   | 0.75    | 1.11   |
| 1½             | 38.1  | 1.94 | 49.3  | 100 | 0.69 | 4    | 102    | 29    | 737   | 0.81    | 1.20   |
| 1%             | 41.3  | 2.07 | 52.8  | 100 | 0.69 | 4    | 102    | 29    | 737   | 0.87    | 1.29   |
| 13/4           | 44.4  | 2.22 | 56.4  | 100 | 0.69 | 4    | 102    | 29    | 737   | 0.94    | 1.40   |
| 11/8           | 47.6  | 2.33 | 59.3  | 100 | 0.69 | 6    | 152    | 29    | 737   | 0.99    | 1.47   |
| 2              | 50.8  | 2.44 | 62.4  | 75  | 0.52 | 6    | 152    | 29    | 737   | 1.05    | 1.56   |
| 21/8           | 54.0  | 2.59 | 65.8  | 75  | 0.52 | 6    | 152    | 29    | 737   | 1.11    | 1.65   |
| 21/4           | 57.1  | 2.70 | 68.6  | 75  | 0.52 | 6    | 152    | 29    | 737   | 1.16    | 1.72   |
| 23/8           | 60.3  | 2.83 | 72.1  | 75  | 0.52 | 8    | 203    | 29    | 737   | 1.22    | 1.81   |
| 21/2           | 63.5  | 3.02 | 76.8  | 75  | 0.52 | 8    | 203    | 29    | 737   | 1.57    | 2.33   |
| 25/8           | 66.7  | 3.16 | 80.3  | 75  | 0.52 | 8    | 203    | 29    | 737   | 1.65    | 2.45   |
| 23/4           | 69.8  | 3.28 | 83.3  | 50  | 0.34 | 8    | 203    | 29    | 737   | 1.72    | 2.56   |
| 21/8           | 73.0  | 3.40 | 86.5  | 50  | 0.34 | 8    | 203    | 29    | 737   | 1.79    | 2.66   |
| 3              | 76.2  | 3.51 | 89.1  | 50  | 0.34 | 10   | 254    | 29    | 737   | 1.77    | 2.63   |
| 31/8           | 79.4  | 3.66 | 93.0  | 50  | 0.34 | 10   | 254    | 29    | 737   | 1.86    | 2.77   |
| 31/4           | 82.5  | 3.78 | 96.2  | 50  | 0.34 | 10   | 254    | 29    | 737   | 1.92    | 2.86   |
| 31/2           | 88.9  | 4.05 | 103.0 | 50  | 0.34 | 10   | 254    | 29    | 737   | 2.07    | 3.08   |
| 4              | 101.6 | 4.53 | 115.2 | 50  | 0.34 | 12   | 305    | 29    | 737   | 2.45    | 3.65   |
| 41/8           | 104.8 | 4.66 | 118.4 | 30  | 0.21 | 12   | 305    | 29    | 737   | 2.52    | 3.75   |
| 41/2           | 114.3 | 5.10 | 129.7 | 30  | 0.21 | 14   | 356    | 29    | 737   | 3.47    | 5.17   |
| 5              | 127.0 | 5.61 | 142.5 | 30  | 0.21 | 24   | 610    | 29    | 737   | 3.83    | 5.70   |
| 51/8           | 130.2 | 5.74 | 145.8 | 30  | 0.21 | 24   | 610    | 29    | 737   | 4.19    | 6.24   |
| $5\frac{1}{2}$ | 139.7 | 6.12 | 155.4 | 30  | 0.21 | 24   | 610    | 29    | 737   | 4.48    | 6.67   |
| 6              | 152.4 | 6.67 | 169.4 | 30  | 0.21 | 30   | 762    | 29    | 737   | 5.19    | 7.73   |
| 61/8           | 155.6 | 6.79 | 172.6 | 30  | 0.21 | 30   | 762    | 29    | 737   | 5.30    | 7.89   |
| 65/8           | 168.3 | 7.49 | 190.4 | 30  | 0.21 | 36   | 914    | 29    | 737   | 7.93    | 11.80  |
| 8              | 203.2 | 8.87 | 225.4 | 30  | 0.21 | 44   | 1118   | 29    | 737   | 8.92    | 13.20  |

AIR & MULTIPURPOSE General Purpose Heavy Duty

> CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

> FOOD Transfer Washdown

#### MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

#### **MARINE**

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLICORD® SOFTWALL WET EXHAUST



#### **Product Specifications**

**APPLICATION:** For water discharge applications for engines, toilets, scuppers and bilge pumps. Will not pant.

Does not meet SAE J2006 R1 Spec.\*

CONSTRUCTION

**TUBE:** Black Nitrile synthetic rubber RMA Class A (High Oil Resistance)

**COVER:** Black Chemivic<sup>™</sup> synthetic rubber (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric

TEMPERATURE: -20°F to 180°F (-29°C to 82°C)

PACKAGING: 25' exact lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Industrial ORS/Wet Exhaust Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 543-154 (<6") 541-154 (>6")



<sup>\*</sup>Spec 542-813 (<6") and 541-813 (>6") meet the SAE J2006 R1 Spec but the tube is non-oil resistant (Class C Oil Resistance)

|       | ഭ     |       |             |         |  |
|-------|-------|-------|-------------|---------|--|
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|       | KII S |       | 1 1 1 1 1 1 | <b></b> |  |
|       |       |       |             |         |  |

| T EIGGRD | COLLMALE | WEI EXIIA | oo.   |     |      |         |        |
|----------|----------|-----------|-------|-----|------|---------|--------|
| I        | D        | NOM       | I. OD | MAX | . WP | WEI     | GHT    |
| in.      | mm.      | in.       | mm.   | psi | Мра  | lb./ft. | kg./m. |
| 1/2      | 12.7     | 0.94      | 23.9  | 250 | 1.72 | 0.29    | 0.43   |
| 5/8      | 15.9     | 1.06      | 27.8  | 200 | 1.38 | 0.34    | 0.50   |
| 3/4      | 19.0     | 1.18      | 30.0  | 200 | 1.38 | 0.26    | 0.38   |
| 7/8      | 22.2     | 1.30      | 33.2  | 200 | 1.38 | 0.44    | 0.65   |
| 1        | 25.4     | 1.43      | 36.3  | 150 | 1.03 | 0.48    | 0.71   |
| 11//8    | 28.6     | 1.57      | 39.9  | 150 | 1.03 | 0.54    | 0.80   |
| 11/4     | 31.8     | 1.69      | 43.0  | 150 | 1.03 | 0.59    | 0.87   |
| 15/16    | 33.3     | 1.75      | 44.5  | 125 | 0.86 | 0.64    | 0.90   |
| 13/8     | 34.9     | 1.81      | 46.0  | 125 | 0.86 | 0.64    | 0.95   |
| 1½       | 38.1     | 1.92      | 49.0  | 100 | 0.62 | 0.62    | 0.92   |
| 1%       | 41.3     | 2.06      | 52.5  | 100 | 0.69 | 0.74    | 1.10   |
| 1¾       | 44.4     | 2.20      | 56.0  | 100 | 0.69 | 0.80    | 1.19   |
| 11//8    | 47.6     | 2.32      | 59.0  | 100 | 0.69 | 0.84    | 1.25   |
| 2        | 50.8     | 2.51      | 63.7  | 75  | 0.52 | 1.04    | 1.54   |
| 21/8     | 54.0     | 2.64      | 67.1  | 75  | 0.52 | 1.10    | 1.63   |
| 21/4     | 57.1     | 2.75      | 69.9  | 75  | 0.52 | 1.15    | 1.71   |
| 2¾       | 60.3     | 2.94      | 74.7  | 75  | 0.52 | 1.35    | 2.01   |
| 21/2     | 63.5     | 3.05      | 77.6  | 75  | 0.52 | 1.41    | 2.10   |
| 25/8     | 66.7     | 3.19      | 81.1  | 75  | 0.52 | 1.48    | 2.20   |
| 21/8     | 73.0     | 3.44      | 87.4  | 75  | 0.52 | 1.61    | 2.31   |
| 3        | 76.2     | 3.54      | 90.1  | 50  | 0.34 | 1.66    | 2.47   |
| 31//8    | 79.4     | 3.70      | 94.0  | 50  | 0.34 | 1.74    | 2.59   |
| 3½       | 88.9     | 4.09      | 109.0 | 50  | 0.34 | 1.94    | 2.89   |
| 4        | 101.6    | 4.57      | 116.1 | 50  | 0.34 | 2.18    | 3.24   |
| 41/8     | 104.8    | 4.69      | 119.3 | 30  | 0.21 | 2.24    | 3.33   |
| 4½       | 114.3    | 5.06      | 128.6 | 30  | 0.21 | 2.43    | 3.62   |
| 5        | 127.0    | 5.56      | 141.3 | 30  | 0.21 | 2.68    | 3.99   |
| 51/8     | 130.2    | 5.68      | 144.3 | 30  | 0.21 | 2.75    | 4.11   |
| 5½       | 139.7    | 6.09      | 154.8 | 30  | 0.21 | 2.94    | 4.38   |
| 6        | 152.4    | 6.56      | 166.6 | 30  | 0.21 | 3.19    | 4.75   |
| 61/8     | 155.6    | 6.68      | 169.8 | 30  | 0.21 | 3.25    | 4.84   |
| 6%       | 168.3    | 7.37      | 187.3 | 30  | 0.21 | 4.78    | 7.12   |
| 8        | 203.2    | 8.75      | 222.2 | 30  | 0.21 | 5.72    | 8.52   |
| 8%       | 219.1    | 9.34      | 237.3 | 20  | 0.14 | 6.12    | 9.11   |
| 10       | 254.0    | 10.73     | 272.7 | 20  | 0.14 | 7.08    | 10.54  |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

#### MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

#### **MARINE**

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# MARINE FUEL LINE USCG/SAE J1527 & ISO 7840 TYPE A1



#### **Product Specifications**

APPLICATION: For marine gasoline tanks. For fuel feed and vent applications on marine pleasure craft. It meets

U.S. Coast Guard and International Marine Certification Institute requirements for type A1 service.

CONSTRUCTION
TUBE: Black Nitrile synthetic rubber RMA Class A (High Oil Resistance)

**COVER:** Black Chemivic<sup>™</sup> synthetic rubber

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE**: 0°F to 115°F (-17°C to 46°C)

PACKAGING: 200' reels, maximum 3 pieces, increments of 50'

**BRANDING:** Example: Goodyear® USCG/SAE J 1527 Type A1 ISO 7840-A1 CE

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 595-032

#### MARINE FUEL LINE SAE J1527 TYPE A1

| ı    | D    | NOM. OD |      | MAX | . WP | WEIGHT  |        |
|------|------|---------|------|-----|------|---------|--------|
| in.  | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |
| 1/4  | 6.4  | 0.65    | 16.5 | 49  | 0.34 | 0.17    | 0.25   |
| 5/16 | 7.9  | 0.71    | 18.0 | 49  | 0.34 | 0.19    | 0.28   |
| 3/8  | 9.5  | 0.78    | 19.8 | 49  | 0.34 | 0.20    | 0.30   |
| 1/2  | 12.7 | 0.89    | 23.0 | 36  | 0.25 | 0.26    | 0.39   |
| 5/8  | 15.9 | 1.06    | 25.8 | 36  | 0.25 | 0.35    | 0.52   |



## FLEXSHIELD<sup>™</sup> SAE J1527 USCG TYPE A1-15 / ISO 7840 MARINE BARRIER HOSE





#### **Product Specifications**

APPLICATION: Designed for marine gasoline tanks for fuel feed and vent applications on marine pleasure craft.

Barrier style construction meets new EPA requirements for low permeation class A1-15 marine fuel

lines. Fire resistant cover provides minimum 2-1/2 minute fire resistivity for USCG type

A service.

CONSTRUCTION

**TUBE:** Black Chemivic<sup>™</sup> synthetic rubber

**COVER:** Nitrile synthetic rubber

REINFORCEMENT: Polyester spiral with nylon barrier

**TEMPERATURE:** - 20°F to 180°F (-29°C to 82°C)

PACKAGING: Reels

BRANDING: Example: FLEXSHIELD™ 5412 3/8" SAE J1527 USCG TYPE A1-15 / ISO 7840-A1 CE Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: Contact a Goodyear Engineered Products representative for special production run minimum

requirements and private label options.

**ORDER CODES:** 1/4 inch 475-412-008 5/16 inch 475-412-010

3/8 inch 475-412-012 1/2 inch 475-412-016

#### FLEXSHIELD™ SAE J1527 TYPE A1-15

| I    | D     | NOM. OD |       | WEIGHT  |        | MIN BURST |      |
|------|-------|---------|-------|---------|--------|-----------|------|
| in.  | mm.   | in.     | mm.   | lb./ft. | kg./m. | psi       | bar  |
| 1/4  | 5.95  | 0.627   | 15.92 | 0.15    | 0.23   | 250       | 17.2 |
| 5/16 | 7.54  | 0.658   | 16.71 | 0.16    | 0.24   | 250       | 17.2 |
| 3/8  | 9.12  | 0.725   | 18.41 | 0.20    | 0.30   | 250       | 17.2 |
| 1/2  | 12.11 | 0.890   | 18.85 | 0.17    | 0.25   | 175       | 12.1 |

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

#### **MARINE**

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER Discharge Suction & Discharge

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

#### **MARINE**

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# MARINE FUEL FEED VENT HOSE USCG/SAE J1527 TYPE A2 FIRE RETARDANT



#### **Product Specifications**

**APPLICATION:** For fuel feed and vent application on marine pleasure craft.

CONSTRUCTION

TUBE: Black Nitrile synthetic rubber RMA Class A (High Oil Resistance)

**COVER:** Gray Chemivic<sup>™</sup> synthetic rubber

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE**: 0°F to 115°F (-17°C to 46°C)

PACKAGING: 500'-750' reels, maximum 3 pieces, minimum length 35'

**BRANDING:** Example: Goodyear® USCG/SAE J 1527 Type A2

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 595-022

#### MARINE FUEL FEED VENT HOSE TYPE A2

| I    | D    | NOM. OD |      | MAX | . WP | WEIGHT  |        |
|------|------|---------|------|-----|------|---------|--------|
| in.  | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |
| 1/4  | 6.4  | 0.66    | 16.8 | 35  | 0.24 | 0.19    | 0.28   |
| 5/16 | 7.9  | 0.72    | 18.3 | 35  | 0.24 | 0.22    | 0.33   |
| 3/8  | 9.5  | 0.78    | 19.8 | 35  | 0.24 | 0.24    | 0.36   |
| 1/2  | 12.7 | 0.91    | 23.1 | 35  | 0.24 | 0.3     | 0.45   |
| 5/8  | 15.9 | 0.96    | 25.8 | 35  | 0.24 | 0.34    | 0.51   |



# MARINE FUEL FEED VENT HOSE USCG/SAE J1527 TYPE B2 NON-FIRE RETARDANT



General Purpose Heavy Duty Push-on

**MULTIPURPOSE** 

CHEMICAL TRANSFER

AIR &

CLEANING EQUIPMENT

> FOOD Transfer Washdown

## MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

#### **Product Specifications**

**APPLICATION:** For fuel feed and vent application on marine pleasure craft.

CONSTRUCTION

**TUBE:** Nitrile synthetic rubber RMA Class A (High Oil Resistance)

**COVER:** Gray Chemivic<sup>™</sup> synthetic rubber

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE:** 0°F to 115°F (-17°C to 46°C)

**PACKAGING:** 500'-750', maximum 3 pieces, minimum length 35'

**BRANDING:** Example: Goodyear® USCG/SAE J 1527 Type B2.

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 595-009

#### MARINE FUEL FEED VENT HOSE TYPE B2

| II.  | D    | NOM. OD |      | MAX | . WP | WEIGHT  |        |
|------|------|---------|------|-----|------|---------|--------|
| in.  | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |
| 1/4  | 6.4  | 0.58    | 14.7 | 34  | 0.23 | 0.12    | 0.18   |
| 5/16 | 7.9  | 0.66    | 16.8 | 34  | 0.23 | 0.15    | 0.22   |
| 3/8  | 9.5  | 0.70    | 17.8 | 34  | 0.23 | 0.16    | 0.24   |
| 1/2  | 12.7 | 0.81    | 20.6 | 34  | 0.23 | 0.18    | 0.27   |
| 5/8  | 15.9 | 0.96    | 24.4 | 34  | 0.23 | 0.19    | 0.28   |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING

Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## **ABRASIVES**



|                        | Page | Food<br>Grade | Clear | Static Dissipating/<br>Static Conductive Tube | Temperature<br>Range | Static<br>Wire | Thermo-<br>plastic | Rubber |
|------------------------|------|---------------|-------|---|----------------------|----------------|--------------------|--------|
| Artrac®                | 106  |               |       | Yes   | -40°F to 158°F       |                | Yes                |        |
| Arvac™ SW              | 105  |               |       |   | -40°F to 158°F       | Yes            | Yes                |        |
| Blucor™                | 103  |               |       | Yes*  | -25°F to 180°F       |                |                    | Yes    |
| Blucor™ Couplings      | 104  |               |       |   |                      |                |                    |        |
| Diversiflex™           | 107  |               |       | Yes*  | -25°F to 180°F       |                |                    | Yes    |
| Diversipipe® 75        | 108  |               |       | Yes*  | -40°F to 180°F       |                |                    | Yes    |
| Diversipipe® 150       | 109  |               |       | Yes*  | -40°F to 180°F       |                |                    | Yes    |
| Flexible Downspout     | 110  |               |       |   | -25°F to 180°F       |                |                    | Yes    |
| Nutriflex® Static Wire | 73   | Yes           | Yes   |   | -15°F to 158°F       | Yes            | Yes                |        |
| Plicord® Blast         | 101  |               |       | Yes   | -25°F to 180°F       |                |                    | Yes    |
| Plicord® Dredge Sleeve | 112  |               |       | Yes   | -25°F to 180°F       |                |                    | Yes    |
| Plicord® Hydrovator™   | 111  |               |       | Yes   | -25°F to 180°F       |                |                    | Yes    |
| Plicord® RVC           | 113  |               |       |   | -20°F to 180°F       |                |                    | Yes    |
| Plicord® Sand Suction  | 114  |               |       | Yes   | -25°F to 180°F       |                |                    | Yes    |
| Plicord® XF Blast      | 102  |               |       | Yes   | -25°F to 180°F       |                |                    | Yes    |
| Sandblast Deadman      | 115  |               |       |   | -20°F to 190°F       |                |                    | Yes    |
| Spiraflex® Air Seeder  | 116  |               | Yes   |   | 0°F to 158°F         |                |                    |        |
| Spirathane™ HD         | 117  |               |       |   | 0°F to 158°F         |                | Yes                |        |
| Spirathane™ LD         | 119  |               | Yes   |   | 0°F to 158°F         |                | Yes                |        |
| Spirathane™ PT         | 118  | Yes           | Yes   |   | 0°F to 158°F         | Yes            | Yes                |        |
| * 0. 1                 |      |               |       |   |                      |                |                    |        |

<sup>\*</sup> Black Tufsyn® Only



## PLICORD® BLAST





AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

#### **Product Specifications**

APPLICATION: Heavy-duty hose for steel shot or sand blasting in cleaning or finishing metal, stone, glass or

other surfaces

CONSTRUCTION TUBE:

Tufsyn® synthetic rubber (static dissipating/static conductive)

**COVER:** 2 ply: Black Plioflex® synthetic rubber (wrapped impression)

4 ply: Green Plioflex synthetic rubber (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric

**TEMPERATURE:** -25°F to 180°F (-32°C to 82°C)

PACKAGING: 50' lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Goodyear® Plicord® Blast 150 psi WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

PLICORD® BLAST (2 PLY)

**ORDER CODES:** 549-020

| 1    | D    | NOM. OD |      | MAX | . WP | WEIGHT  |        |  |
|------|------|---------|------|-----|------|---------|--------|--|
| in.  | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |  |
| 1/2  | 12.7 | 1.13    | 28.7 | 150 | 1.03 | 0.41    | 0.61   |  |
| 3/4  | 19.1 | 1.48    | 37.6 | 150 | 1.03 | 0.68    | 1.01   |  |
| 1    | 25.4 | 1.88    | 47.8 | 150 | 1.03 | 1.05    | 1.56   |  |
| 11/4 | 31.8 | 2.16    | 54.9 | 150 | 1.03 | 1.26    | 1.88   |  |
| 1½   | 38.1 | 2.38    | 60.5 | 150 | 1.03 | 1.42    | 2.11   |  |
| 2    | 50.8 | 2.86    | 72.6 | 150 | 1.03 | 1.70    | 2.53   |  |

PLICORD® BLAST (4 PLY)

**ORDER CODES:** 549-027

| 1    | D    | NOM. OD |      | MAX | . WP | WEIGHT  |        |
|------|------|---------|------|-----|------|---------|--------|
| in.  | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |
| 1/2  | 12.7 | 1.14    | 26.7 | 150 | 1.03 | 0.44    | 0.61   |
| 3/4  | 19.1 | 1.50    | 38.1 | 150 | 1.03 | 0.71    | 1.06   |
| 1    | 25.4 | 1.88    | 47.8 | 150 | 1.03 | 1.08    | 1.61   |
| 11/4 | 31.8 | 2.16    | 54.9 | 150 | 1.03 | 1.31    | 1.95   |
| 1½   | 38.1 | 2.38    | 60.5 | 150 | 1.03 | 1.45    | 2.16   |
| 2    | 50.8 | 2.88    | 73.2 | 150 | 1.03 | 1.75    | 2.60   |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING

Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLICORD® XF BLAST





#### **Product Specifications**

APPLICATION: Standard-duty hose for steel shot or sand blasting in cleaning or finishing metal, stone, glass or

other surfaces

CONSTRUCTION

**TUBE:** Tufsyn® synthetic rubber (static dissipating/static conductive)

**COVER:** Black Plioflex® synthetic rubber (static dissipating/static conductive) (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric

TEMPERATURE: -25°F to 180°F (-32°C to 82°C)

**PACKAGING:** 50' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® XF Blast 150 psi WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

#### PLICORD® XF BLAST (2 PLY)

ORDER CODES: 549-018

|                | D    | NOM. OD |      | MAX | . WP | WEIGHT  |        |
|----------------|------|---------|------|-----|------|---------|--------|
| in.            | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |
| 5/8            | 15.9 | 1.13    | 28.7 | 150 | 1.03 | 0.37    | 0.55   |
| 7/8            | 22.2 | 1.51    | 38.4 | 150 | 1.03 | 0.61    | 0.91   |
| $1\frac{1}{8}$ | 28.6 | 1.88    | 47.8 | 150 | 1.03 | 0.92    | 1.37   |
| 13/8           | 34.9 | 2.15    | 54.6 | 150 | 1.03 | 1.12    | 1.67   |
| 15/8           | 41.3 | 2.38    | 60.5 | 150 | 1.03 | 1.21    | 1.80   |
| 21/8           | 54.0 | 2.89    | 73.4 | 150 | 1.03 | 1.53    | 2.28   |

#### PLICORD® XF BLAST (4 PLY)

ORDER CODES: 549-019

| ı    | D    | NOM. OD |      | MAX | . WP | WEIGHT  |        |
|------|------|---------|------|-----|------|---------|--------|
| in.  | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |
| 5/8  | 15.9 | 1.12    | 28.5 | 150 | 1.03 | 0.35    | 0.52   |
| 7/8  | 22.2 | 1.50    | 38.1 | 150 | 1.03 | 0.71    | 1.06   |
| 11/8 | 28.6 | 1.88    | 47.8 | 150 | 1.03 | 0.93    | 1.38   |
| 13/8 | 34.9 | 2.16    | 54.9 | 150 | 1.03 | 1.11    | 1.65   |
| 1%   | 41.3 | 2.38    | 60.5 | 150 | 1.03 | 1.23    | 1.83   |
| 21/8 | 54.0 | 2.88    | 73.2 | 150 | 1.03 | 1.48    | 2.20   |



## BLUCOR™



#### **Product Specifications**

**APPLICATION:** Blucor™ material handling hose with the Goodyear Engineered Products 150 psi bolt-on split

flange coupling is an easy and economical choice. Blucor has the high strength needed to handle pressure or suction service in the transfer of dry bulk, slurry, salt, cement, fertilizers and a limited

quantity of oil-based products.

CONSTRUCTION

**TUBE:** 3/8" Black Pureten<sup>™</sup>, 3/8" Black Tufsyn<sup>®</sup> (static dissipating/static conductive), or 3/8"

Tan Pureten™

**COVER:** Black corrugated abrasion-resistant Plioflex® (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

**TEMPERATURE:** -25°F to 180°F (-32°C to 82°C)

**PACKAGING:** 3"-8" Coiled or straight, polywrapped

10"-12" Straight, polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Blucor™ Black Pureten™ Liner

**COUPLINGS:** Blucor bolt-on split flange couplings, see next page.

NON-STOCK/SIZES: Maximum shipping length: 3"-8": 100'; 10" & 12": 50'

**ORDER CODES:** 541-789 (black Pureten) 541-458 (tan Pureten)

541-788 (black Tufsyn)

| D |   | П  | 2 | U | $\mathbf{D}_{TM}$ |
|---|---|----|---|---|-------------------|
| D | • | IJ | U | U | N                 |

| ID  |       | NOM. OD |       | MAX. WP |      | BEND RADIUS |      | VACUUM HG |     | WEIGHT  |        |
|-----|-------|---------|-------|---------|------|-------------|------|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm.  | in.       | mm. | lb./ft. | kg./m. |
| 3   | 76.2  | 4.39    | 111.5 | 150     | 1.03 | 16          | 406  | 29        | 737 | 4.63    | 6.89   |
| 4   | 101.6 | 5.25    | 133.4 | 150     | 1.03 | 20          | 508  | 29        | 737 | 5.67    | 8.44   |
| 6   | 152.4 | 7.37    | 187.2 | 150     | 1.03 | 36          | 914  | 29        | 737 | 9.48    | 14.11  |
| 8   | 203.2 | 9.44    | 239.8 | 150     | 1.03 | 48          | 1219 | 29        | 737 | 14.20   | 21.13  |
| 10  | 254.0 | 11.38   | 289.1 | 150     | 1.03 | 60          | 1524 | 29        | 737 | 16.63   | 24.75  |
| 12  | 304.8 | 13.81   | 350.8 | 100     | 0.69 | 72          | 1829 | 29        | 737 | 23.40   | 34.82  |

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

#### MATERIAL HANDLING

Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

#### MATERIAL HANDLING

Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## BLUCOR™ COUPLINGS BOLT-ON SPLIT FLANGE COUPLINGS



#### **Product Specifications**

**SPECIFICATIONS:** Each fitting is manufactured of high-tensile 432 aluminum alloy. All flanges are 150 lbs. ANSI

B16.5. Bolt-on split flange couplings are supplied with necessary mounting hardware (bolts, nuts and washers). Internal configurations of fitting corrugations has been designed specifically to

match the corrugation of the  $Blucor^{TM}$  hose.

**ORDER CODES:** 604-189

#### **BLUCOR™ COUPLINGS**

| I   | D     | NOM  | l. OD | WEIGHT  |        |  |  |
|-----|-------|------|-------|---------|--------|--|--|
| in. | mm.   | in.  | mm.   | lb./ft. | kg./m. |  |  |
| 3   | 76.2  | 7.5  | 190.5 | 3.6     | 5.36   |  |  |
| 4   | 101.6 | 9.0  | 228.6 | 4.0     | 5.95   |  |  |
| 6   | 152.4 | 11.0 | 279.4 | 8.2     | 12.20  |  |  |
| 8   | 203.2 | 13.5 | 342.9 | 14.0    | 20.83  |  |  |
| 10  | 254.0 | 16.0 | 406.4 | 25.0    | 37.20  |  |  |
| 12  | 304.8 | 19.0 | 482.6 | 30.0    | 44.64  |  |  |



## ARVAC™ SW



**Product Specifications** 

APPLICATION: Heavy-duty abrasion-resistant suction hose used for a variety of abrasive material-handling

applications, including the transfer of sand, gravel, cement, fly ash, glass, metals, plastic

pellets, fertilizers, rock salts and slurries. Static wire for static dissipation.

CONSTRUCTION

**TUBE:** Higher-temperature urethane

**COVER:** Static-dissipating thermoplastic alloyed blend of nitrile, polyurethane and PVC

**REINFORCEMENT:** Rigid high-density PVC helix

**TEMPERATURE:** -40°F to 158°F (-40°C to 70°C)

**PACKAGING:** 1½"-6" 20' lengths, polytube

100' lengths, coiled and polywrapped

8"-10" 20', 40', 50' lengths, polytube

**BRANDING:** Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: Contact Goodyear Engineered Products for special production run minimum requirements.

**ORDER CODES:** 586-550

| Δ | R۱ | Λ | $\mathbf{C}_{IM}$ | G I | V |
|---|----|---|-------------------|-----|---|
|   |    |   |                   |     |   |

| ID   |       | NOM. OD |       | MAX. WP |      | WEIGHT  |        | VACUUM HG |     | BEND RADIUS |     | LENGTH |
|------|-------|---------|-------|---------|------|---------|--------|-----------|-----|-------------|-----|--------|
| in.  | mm.   | in.     | mm.   | psi     | Мра  | lb./ft. | kg./m. | in.       | mm. | in.         | mm. | feet   |
| 11/4 | 31.8  | 1.60    | 40.7  | 45      | 0.31 | 0.35    | 0.52   | 29        | 737 | 3.0         | 76  | 100    |
| 1½   | 38.1  | 1.87    | 47.4  | 40      | 0.28 | 0.39    | 0.58   | 29        | 737 | 3.0         | 76  | 100    |
| 2    | 50.8  | 2.46    | 62.5  | 40      | 0.28 | 0.67    | 0.99   | 29        | 737 | 2.5         | 63  | 100    |
| 2½   | 63.5  | 3.03    | 77.0  | 35      | 0.24 | 0.90    | 1.33   | 29        | 737 | 4.0         | 101 | 100    |
| 3    | 76.2  | 3.60    | 91.5  | 30      | 0.21 | 1.17    | 1.73   | 29        | 737 | 6.0         | 152 | 100    |
| 4    | 101.6 | 4.74    | 120.5 | 30      | 0.21 | 1.97    | 2.91   | 29        | 737 | 7.0         | 177 | 100    |
| 5    | 127.0 | 5.81    | 147.5 | 30      | 0.21 | 2.58    | 3.82   | 29        | 737 | 8.0         | 203 | 100    |
| 6    | 152.4 | 6.89    | 175.0 | 25      | 0.17 | 3.32    | 4.91   | 29        | 737 | 8.0         | 203 | 20     |
| 6    | 152.4 | 6.89    | 175.0 | 25      | 0.17 | 3.32    | 4.91   | 29        | 737 | 8.0         | 203 | 50     |
| 6    | 152.4 | 6.89    | 175.0 | 25      | 0.17 | 3.32    | 4.91   | 29        | 737 | 8.0         | 203 | 100    |
| 8    | 203.2 | 9.13    | 232.0 | 20      | 0.14 | 5.66    | 8.38   | 29        | 737 | 18.0        | 456 | 20     |
| 8    | 203.2 | 9.13    | 232.0 | 20      | 0.14 | 5.66    | 8.38   | 29        | 737 | 18.0        | 456 | 50     |
| 10   | 254.0 | 11.16   | 283.5 | 20      | 0.14 | 7.86    | 11.63  | 29        | 737 | 36.0        | 912 | 20     |
| 10   | 254.0 | 11.16   | 283.5 | 20      | 0.14 | 7.86    | 11.63  | 29        | 737 | 36.0        | 912 | 40     |

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

#### MATERIAL HANDLING

Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

#### MATERIAL HANDLING

Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

#### **ARTRAC®**



## **Product Specifications**

NEW

**APPLICATION:** The Artrac® hose is used for a variety of abrasive, material-handling applications to transfer

sand, gravel, cement, fly ash, glass, metals, plastic pellets, fertilizers, rock salts and slurries.

CONSTRUCTION

**TUBE:** Thermoplastic alloyed blend of polyurethane and PVC (static dissipating/static conductive)

**COVER:** Thermoplastic alloyed blend of nitrile, polyurethane, and PVC (nonconductive)

(Available with conductive cover-see order code below.)

**REINFORCEMENT:** Rigid high-density PVC helix

TEMPERATURE: -40°F to 158°F (-40°C to 70°C)

**PACKAGING:** 1½"-6" 100' lengths, coiled and polywrapped

8"-10" 20' lengths, polytube

BRANDING: Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: Contact customer service

**ORDER CODES:** 586-462 586-522 (with conductive cover)

#### **ARTRAC® ABRASIVE MATERIAL HANDLING**

| ID   |       | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|------|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in.  | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 11/4 | 31.8  | 1.63    | 41.4  | 45      | 0.31 | 3.0         | 76  | 29        | 737 | 0.34    | 0.51   |
| 1½   | 38.1  | 1.89    | 48.0  | 40      | 0.28 | 3.0         | 76  | 29        | 737 | 0.40    | 0.60   |
| 2    | 50.8  | 2.47    | 62.7  | 40      | 0.28 | 2.5         | 63  | 29        | 737 | 0.67    | 1.00   |
| 2½   | 63.5  | 3.05    | 77.5  | 35      | 0.24 | 4.0         | 101 | 29        | 737 | 0.87    | 1.29   |
| 3    | 76.2  | 3.69    | 93.7  | 30      | 0.21 | 6.0         | 152 | 29        | 737 | 1.16    | 1.73   |
| 4    | 101.6 | 4.81    | 122.2 | 30      | 0.21 | 7.0         | 177 | 29        | 737 | 2.16    | 3.21   |
| 5    | 127.0 | 5.78    | 146.8 | 30      | 0.21 | 8.0         | 203 | 29        | 737 | 2.60    | 3.87   |
| 6    | 152.4 | 7.08    | 179.8 | 25      | 0.17 | 8.0         | 203 | 29        | 737 | 3.43    | 5.10   |
| 8    | 203.2 | 9.22    | 234.2 | 20      | 0.14 | 18.0        | 456 | 29        | 737 | 5.84    | 8.69   |
| 10   | 254.0 | 11.21   | 284.7 | 20      | 0.14 | 36.0        | 912 | 29        | 737 | 7.96    | 11.85  |



### DIVERSIFLEX™



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

MARINE

MATERIAL HANDLING

Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **Product Specifications**

**APPLICATION:** Provides the high strength needed to handle pressure or suction service in the movement

of non-oily dry bulk materials such as salt, cement, fertilizers and dry chemicals. Typical applications include unloading hoppers to rail cars or barges and transferring materials from

rail cars or barges to storage units.

CONSTRUCTION TUBE:

1/4" Black Tufsyn® synthetic rubber for abrasion resistance (static dissipating/static conductive)

**COVER:** Abrasion-resistant Plioflex® synthetic rubber (corrugated surface) (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

TEMPERATURE: -25°F to 180°F (-32°C to 82°C)

PACKAGING: Polywrapped

**BRANDING:** Example: Goodyear® Plicord® Diversiflex™ Hose 75 psi Max WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: Available up to 18" ID

**ORDER CODES:** 541-400

#### DIVERSIFLEX™

| 1    | D     | NOM   | 1. OD | MAX | . WP | BEND | RADIUS | VACUI | JM HG | WEI     | GHT    |
|------|-------|-------|-------|-----|------|------|--------|-------|-------|---------|--------|
| in.  | mm.   | in.   | mm.   | psi | Мра  | in.  | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 4    | 101.6 | 4.88  | 124.0 | 75  | 0.52 | 20   | 508    | 29    | 737   | 3.43    | 5.10   |
| 5    | 127.0 | 6.25  | 158.5 | 75  | 0.52 | 25   | 635    | 29    | 737   | 6.32    | 9.41   |
| 6    | 152.4 | 6.92  | 175.8 | 75  | 0.52 | 36   | 914    | 29    | 737   | 5.84    | 8.69   |
| 65/8 | 168.3 | 7.60  | 193.0 | 75  | 0.52 | 40   | 1016   | 29    | 737   | 7.04    | 10.48  |
| 8    | 203.2 | 9.05  | 229.9 | 75  | 0.52 | 48   | 1219   | 29    | 737   | 9.22    | 13.72  |
| 85/8 | 219.2 | 9.69  | 246.1 | 75  | 0.52 | 52   | 1321   | 29    | 737   | 10.82   | 16.10  |
| 10   | 254.0 | 11.04 | 280.4 | 75  | 0.52 | 60   | 1524   | 29    | 737   | 12.04   | 17.92  |
| 12   | 304.8 | 13.16 | 334.3 | 75  | 0.52 | 72   | 1829   | 29    | 737   | 16.38   | 24.38  |
| 12¾  | 323.9 | 13.91 | 353.3 | 75  | 0.52 | 77   | 1956   | 29    | 737   | 17.78   | 26.46  |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

#### MATERIAL HANDLING

Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### DIVERSIPIPE® 75



### **Product Specifications**

**APPLICATION:** A high-quality flexible hose for replacing cast iron pipes for the transfer of abrasive materials

or corrosive chemicals where installation requires minimum bends or where the inherit flexibility of a durable rubber hose is required. Diversipipe® is also available in a softwall construction for

discharge service.

CONSTRUCTION

**TUBE:** Black Tufsyn® synthetic rubber (static dissipating/static conductive) for slurry and dry bulk

transfer, black Pureten<sup>™</sup> for slurry, tan Pureten<sup>™</sup> for slurry with high kinetic energy

**COVER:** Plioflex® synthetic rubber (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

**TEMPERATURE:** -40°F to 180°F (-40°C to 82°C)

PACKAGING: Polywrapped

**BRANDING:** Example: Goodyear® Plicord® Material Handling Hose, 75 psi Max WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: Available up to 18" ID

**ORDER CODES:** Black Tufsyn: 541-047 (1/4" tube gauge) 541-044\* (3/8" tube gauge)

541-050\* (1/2" tube gauge)

Black Pureten: 541-731 (1/4" tube gauge)

Tan Pureten: 541-335 (1/4" tube gauge) 541-353\* (3/8" tube gauge)

#### DIVERSIPIPE® 75

| ı     | D     | NOM   | I. OD | MAX. WP |      | BEND  | RADIUS  | VACUUM HG |       | WEIGHT  |        |
|-------|-------|-------|-------|---------|------|-------|---------|-----------|-------|---------|--------|
| in.   | mm.   | in.   | mm.   | psi     | Мра  | in.   | mm.     | in.       | mm.   | lb./ft. | kg./m. |
| 2     | 50.8  | 2.91  | 73.9  | 75      | 0.52 | 12    | 304.80  | 29        | 736.6 | 1.98    | 2.95   |
| 21/2  | 63.5  | 3.39  | 86.1  | 75      | 0.52 | 15    | 381.00  | 29        | 736.6 | 2.44    | 3.64   |
| 3     | 76.2  | 3.89  | 98.8  | 75      | 0.52 | 18    | 457.20  | 29        | 736.6 | 2.99    | 4.46   |
| 4     | 101.6 | 4.91  | 124.7 | 75      | 0.52 | 24    | 609.60  | 29        | 736.6 | 3.79    | 5.65   |
| 41/2  | 114.3 | 5.50  | 139.7 | 75      | 0.52 | 27    | 685.80  | 29        | 736.6 | 4.74    | 7.06   |
| 5     | 127.0 | 6.44  | 163.6 | 75      | 0.52 | 30    | 762.00  | 29        | 736.6 | 5.48    | 8.17   |
| 6     | 152.4 | 7.13  | 181.1 | 75      | 0.52 | 36    | 914.40  | 29        | 736.6 | 7.33    | 10.92  |
| 65/8  | 168.3 | 7.78  | 197.6 | 75      | 0.52 | 39.7  | 1009.65 | 29        | 736.6 | 8.36    | 12.46  |
| 8     | 203.2 | 9.19  | 233.4 | 75      | 0.52 | 48    | 1219.20 | 29        | 736.6 | 10.48   | 15.62  |
| 85/8  | 219.1 | 9.75  | 247.6 | 75      | 0.52 | 51.75 | 1314.45 | 29        | 736.6 | 11.43   | 17.03  |
| 10    | 254.0 | 11.23 | 285.2 | 75      | 0.52 | 60    | 1524.00 | 29        | 736.6 | 14.83   | 22.10  |
| 12    | 304.8 | 13.31 | 338.1 | 75      | 0.52 | 72    | 1828.80 | 29        | 736.6 | 18.16   | 27.06  |
| 123/4 | 323.8 | 14.22 | 361.2 | 75      | 0.52 | 76.5  | 1943.10 | 29        | 736.6 | 22.51   | 33.54  |

\*Note: 3/8" and 1/2" tube gauge specs available on request. Contact Customer Service.



### DIVERSIPIPE® 150



**Product Specifications** 

**APPLICATION:** A high-quality flexible hose for replacing cast iron pipes for the transfer of abrasive materials or

corrosive chemicals where installation requires minimum bends or where the inherent flexibility of a durable rubber hose is required. Diversipipe® is also available in a softwall construction for a

discharge service.

CONSTRUCTION

TUBE: Black Tufsyn® (static dissipating/static conductive) for slurry and dry bulk transfer, black

Pureten<sup>™</sup> for slurry, tan Pureten<sup>™</sup> for slurry with high kinetic energy

**COVER:** Plioflex® synthetic rubber (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

**TEMPERATURE:** -40°F to 180°F (-40°C to 82°C)

**PACKAGING:** Polywrapped

**BRANDING:** Example: Goodyear® Plicord® Material Handling Hose, 150 psi Max WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: Available up to 18" ID

**ORDER CODES:** Black Tufsyn: 541-362 (1/4" tube gauge) 541-364\* (3/8" tube gauge)

541-360\* (1/2" tube gauge)

Black Pureten: 541-372 (1/4" tube gauge) 541-350\* (3/8" tube gauge)

541-369\* (1/2" tube gauge)

Tan Pureten: 541-380 (1/4" tube gauge) 541-366\* (3/8" tube gauge)

541-373\* (1/2" tube gauge)

DIVERSIPIPE® 150

|                | D     | NOM   | 1. OD MAX. WP |     | . WP | BEND RADIUS |         | VACUUM HG |       | WEIGHT  |        |
|----------------|-------|-------|---------------|-----|------|-------------|---------|-----------|-------|---------|--------|
| in.            | mm.   | in.   | mm.           | psi | Мра  | in.         | mm.     | in.       | mm.   | lb./ft. | kg./m. |
| 2              | 50.8  | 2.97  | 75.4          | 150 | 1.03 | 12          | 304.80  | 29        | 736.6 | 2.11    | 3.14   |
| 21/2           | 63.5  | 3.44  | 87.4          | 150 | 1.03 | 15          | 381.00  | 29        | 736.6 | 2.65    | 3.95   |
| 3              | 76.2  | 3.94  | 100.1         | 150 | 1.03 | 18          | 457.20  | 29        | 736.6 | 3.05    | 4.54   |
| 4              | 101.6 | 5.00  | 127.0         | 150 | 1.03 | 24          | 609.60  | 29        | 736.6 | 4.10    | 6.11   |
| $4\frac{1}{2}$ | 114.3 | 5.53  | 140.5         | 150 | 1.03 | 27          | 685.80  | 29        | 736.6 | 4.91    | 7.32   |
| 5              | 127.0 | 6.09  | 154.7         | 150 | 1.03 | 30          | 762.00  | 29        | 736.6 | 6.01    | 8.95   |
| 6              | 152.4 | 7.22  | 183.4         | 150 | 1.03 | 36          | 914.40  | 29        | 736.6 | 8.13    | 12.11  |
| 65/8           | 168.3 | 7.84  | 199.1         | 150 | 1.03 | 40          | 1016.00 | 29        | 736.6 | 9.34    | 13.92  |
| 8              | 203.2 | 9.06  | 230.1         | 150 | 1.03 | 48          | 1219.20 | 29        | 736.6 | 11.51   | 17.15  |
| 85/8           | 219.1 | 10.03 | 254.8         | 150 | 1.03 | 52          | 1320.80 | 29        | 736.6 | 14.35   | 21.38  |
| 10             | 254.0 | 11.38 | 289.1         | 150 | 1.03 | 60          | 1524.00 | 29        | 736.6 | 16.40   | 24.44  |
| 12             | 304.8 | 13.47 | 342.1         | 150 | 1.03 | 72          | 1828.80 | 29        | 736.6 | 19.83   | 29.55  |
| 12¾            | 323.8 | 14.31 | 363.5         | 150 | 1.03 | 76          | 1930.40 | 29        | 736.6 | 23.38   | 34.84  |

\*Note: 3/8" and 1/2" tube gauge specs available on request. Contact Customer Service.



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Nashdown

> > MARINE

#### MATERIAL HANDLING

Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

Discharge Suction & Discharge

WELDING

COUPLING SYSTEMS

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

#### MATERIAL HANDLING

Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## FLEXIBLE DOWNSPOUT



### **Product Specifications**

**APPLICATION:** Flexible Downspout is an economical choice for gravity flow service. Install only in a

vertical position

CONSTRUCTION

TUBE: 1/8" Black Tufsyn® synthetic rubber for abrasion resistance (static dissipating/static conductive)

**COVER:** Black Plioflex® synthetic rubber (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric

TEMPERATURE: -25°F to 180°F (-32°C to 82°C)

PACKAGING: Polywrapped

**BRANDING:** Example: Goodyear® Flexible Downspout

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: Available up to 18" ID

**ORDER CODES:** 541-015

#### **FLEXIBLE DOWNSPOUT**

| II   | D     | NON   | 1. OD | MAX | . WP | WEI     | GHT    |
|------|-------|-------|-------|-----|------|---------|--------|
| in.  | mm.   | in.   | mm.   | psi | Мра  | lb./ft. | kg./m. |
| 4    | 101.6 | 4.41  | 111.9 | 50  | 0.34 | 1.28    | 1.89   |
| 41/2 | 114.3 | 4.90  | 124.5 | 50  | 0.34 | 1.46    | 2.17   |
| 6    | 152.4 | 6.40  | 162.6 | 35  | 0.24 | 1.92    | 2.86   |
| 65%  | 168.3 | 7.02  | 178.3 | 35  | 0.24 | 2.11    | 3.14   |
| 8    | 203.2 | 8.40  | 213.4 | 25  | 0.17 | 2.54    | 3.78   |
| 85/8 | 219.1 | 8.99  | 228.4 | 25  | 0.17 | 2.72    | 4.05   |
| 10   | 254.0 | 10.38 | 263.7 | 20  | 0.14 | 3.15    | 4.69   |
| 10¾  | 273.1 | 11.23 | 285.2 | 20  | 0.14 | 3.84    | 5.71   |
| 12   | 304.8 | 12.46 | 316.5 | 15  | 0.10 | 4.28    | 6.37   |
| 12¾  | 323.9 | 13.21 | 335.5 | 15  | 0.10 | 4.54    | 6.76   |
| 14   | 355.6 | 14.56 | 369.9 | 15  | 0.10 | 4.91    | 7.32   |
| 16   | 406.4 | 16.53 | 419.9 | 10  | 0.07 | 5.59    | 8.33   |



### PLICORD® HYDROVATOR™

### **Product Specifications**

NEW

**APPLICATION:** A rugged yet lightweight hose designed exclusively for Hydrovac operations. Plicord® Hydrovator™

from Goodyear Engineered Products combines the best in lightweight design and durability.
Tufsyn® tube handles the toughest Hydro Excavation jobs. The unique corrugated Plioflex® cover provides superior flexibility in all applications. Hydrovator™ Hose rated for full vacuum. All sizes

are rated for full vacuum.

CONSTRUCTION

TUBE: Black natural rubber combined with a static dissipating Tufsyn® liner.

**COVER:** Static dissipating black Plioflex® synthetic rubber with a heavy corrugated profile for

high flexibility.

**REINFORCEMENT:** Double helix spiral steel wire with plies of synthetic fabric.

TEMPERATURE: -25°F to 180°F (-32°C to 82°C)

**PACKAGING:** Coiled or straight length.

**BRANDING:** Example: Plicord® Hydrovator™ Vacuum Hose

**COUPLINGS:** Plain end, soft end or enlarged soft end.

STOCK LENGTH: Built to length

**ORDER CODES:** 541-289

#### PLICORD® HYDROVATOR™

| I   | D     | NOM   | I. OD | BEND I | RADIUS | WEIGHT  |        |  |
|-----|-------|-------|-------|--------|--------|---------|--------|--|
| in. | mm.   | in.   | mm.   | in.    | mm.    | lb./ft. | kg./m. |  |
| 6   | 152.6 | 7.10  | 180.3 | 12     | 0.24   | 6.4     | 2.86   |  |
| 8   | 203.5 | 8.90  | 226.5 | 16     | 0.17   | 8.4     | 3.78   |  |
| 10  | 253.9 | 11.10 | 281.9 | 20     | 0.14   | 11.8    | 4.69   |  |

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

#### MATERIAL HANDLING

Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Vashdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

#### MATERIAL HANDLING

Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# PLICORD® DREDGE SLEEVE



### **Product Specifications**

**APPLICATION:** The Plicord® Dredge Sleeve is used as a flexible connection between pipe sections on the

discharge line of hydraulic-type dredges.

CONSTRUCTION
TUBE: 3/8" Tufs

3/8" Tufsyn® abrasion-resistant rubber (static dissipating/static conductive). Other gauges

available upon request.

**COVER:** Black Plioflex® synthetic rubber (wrapped impression)

**REINFORCEMENT:** Multiple plies spirals synthetic and fabric

TEMPERATURE: -25°F to 180°F (-32°C to 82°C)

**PACKAGING:** Polywrapped

**BRANDING:** Example: Goodyear® Plicord® Dredge Sleeve

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

ORDER CODES: 541-107

Available on request

541-290 1/2" Tufsyn® tube 150 psi 541-177 1/2" Black Pureten™ 150 psi 541-081 3/4" Tufsyn® tube 150 psi 541-316 3/4" Black Pureten™ 150 psi

#### PLICORD® DREDGE SLEEVE

| I     | D     | NOM   | I. OD | MAX | . WP | BEND I | RADIUS | WEIGHT  |        |  |
|-------|-------|-------|-------|-----|------|--------|--------|---------|--------|--|
| in.   | mm.   | in.   | mm.   | psi | Мра  | in.    | mm.    | lb./ft. | kg./m. |  |
| 6½    | 114.3 | 6.09  | 154.7 | 75  | 0.52 | 40     | 1016   | 7.00    | 10.42  |  |
| 65//8 | 168.3 | 8.22  | 208.8 | 75  | 0.52 | 60     | 1524   | 9.77    | 14.54  |  |
| 85/8  | 219.1 | 10.31 | 261.9 | 75  | 0.52 | 80     | 2032   | 13.59   | 20.22  |  |
| 10¾   | 273.1 | 12.50 | 317.5 | 75  | 0.52 | 100    | 2540   | 16.72   | 24.88  |  |
| 12¾   | 323.9 | 14.53 | 369.1 | 75  | 0.52 | 120    | 3048   | 20.04   | 29.82  |  |
| 14    | 355.6 | 15.89 | 403.6 | 75  | 0.52 | 140    | 3556   | 22.65   | 33.71  |  |
| 16    | 406.4 | 17.84 | 453.1 | 75  | 0.52 | 160    | 4064   | 24.91   | 37.07  |  |
| 18    | 457.2 | 19.94 | 506.5 | 75  | 0.52 | 180    | 4572   | 27.80   | 41.37  |  |



### PLICORD® RVC



### **Product Specifications**

**APPLICATION:** For use on reverse drilling rigs.

CONSTRUCTION

**TUBE:** Black Tufsyn® synthetic rubber: 1/4" Gauge–2"–4" l.D.; 1/2" Gauge–6"; 3/8" Gauge–8"

**COVER:** Blue Plioflex® synthetic rubber with orange spiral transfer brand (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric: 2" & 3" ID—6 plies; 4" & 6" ID—8 plies; 8" ID—10 plies

TEMPERATURE: -20°F to 180°F (-29°C to 82°C)

**PACKAGING:** 2" - 4", 100' length, coiled polywrapped; 6" - 8", 50' length, shipped straight polywrapped

over 6", custom lengths up to 100'

**BRANDING (SPIRAL):** Example: Goodyear® Reverse Circulation 600 psi Max W.P. Made in Canada

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: Custom lengths available.

**ORDER CODES:** 549-341 (2"-4") 541-341 (6" and 8")

#### PLICORD® RVC

| 1   | D     | NOM  | 1. OD | MAX | . WP | WEIGHT  |        |  |
|-----|-------|------|-------|-----|------|---------|--------|--|
| in. | mm.   | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 2   | 50.8  | 3.11 | 79.0  | 600 | 4.14 | 2.37    | 3.53   |  |
| 3   | 76.2  | 4.17 | 105.9 | 600 | 4.14 | 3.39    | 5.04   |  |
| 4   | 101.6 | 5.39 | 136.9 | 600 | 4.14 | 5.15    | 7.66   |  |
| 6   | 152.4 | 7.91 | 200.9 | 600 | 4.14 | 10.66   | 15.86  |  |
| 8   | 203.2 | 9.89 | 251.2 | 600 | 4.14 | 12.54   | 18.66  |  |

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

#### MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

#### MATERIAL HANDLING

Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLICORD® SAND SUCTION



### **Product Specifications**

APPLICATION: Plicord® Sand Suction hose is for use on the suction end of hydraulic dredges. It provides a

flexible connection between dredging lines and pumps.

CONSTRUCTION

**TUBE:** 3/8" Black Tufsyn® synthetic rubber for abrasion resistance (static dissipating/static

conductive). Also available in 1/2" or 3/4" tube gauge.

**COVER:** Black Plioflex® synthetic rubber (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

TEMPERATURE: -25°F to 180°F (-32°C to 82°C)

PACKAGING: Custom lengths polywrapped

**BRANDING:** Example: Goodyear® Style M Sand Suction

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: Custom lengths available.

**ORDER CODES:** 541-267 (3/8" tube) 541-268 (3/4" tube)

541-265 (1/2" tube)

#### **PLICORD® SAND SUCTION**

| II   | D     | NOM   | . OD  | BEND RADIUS |      | VACUI | JM HG | WEI     | GHT    |
|------|-------|-------|-------|-------------|------|-------|-------|---------|--------|
| in.  | mm.   | in.   | mm.   | in.         | mm.  | in.   | mm.   | lb./ft. | kg./m. |
| 4    | 101.6 | 5.31  | 134.9 | 40          | 1016 | 30    | 762   | 5.71    | 8.50   |
| 5    | 127.0 | 6.98  | 177.3 | 46          | 1168 | 30    | 762   | 9.47    | 14.09  |
| 6    | 152.4 | 7.54  | 191.5 | 52          | 1321 | 30    | 762   | 11.35   | 16.89  |
| 65/8 | 168.3 | 8.20  | 208.3 | 55          | 1397 | 30    | 762   | 13.96   | 20.77  |
| 8    | 203.2 | 9.63  | 244.6 | 62          | 1575 | 30    | 762   | 16.93   | 25.19  |
| 85/8 | 219.1 | 10.25 | 260.4 | 68          | 1727 | 30    | 762   | 17.85   | 26.56  |
| 10   | 254.0 | 11.81 | 300.0 | 76          | 1930 | 30    | 762   | 23.94   | 35.63  |
| 10¾  | 273.1 | 12.63 | 320.8 | 82          | 2083 | 30    | 762   | 25.68   | 38.22  |
| 12   | 304.8 | 13.91 | 353.3 | 91          | 2311 | 30    | 762   | 28.95   | 43.08  |
| 12¾  | 323.9 | 14.59 | 370.6 | 94          | 2388 | 30    | 762   | 29.98   | 44.61  |



### SANDBLAST DEADMAN



**Product Specifications** 

**APPLICATION:** Double Line Sandblast Deadman hose is for use with systems for the automatic shut-off of

sandblasting equipment at the operator end of the system. Used in a pneumatic closed circuit pattern, deadman hose is connected to air-actuated shut valves which, in turn, are controlled at all times by the sandblast operator via a "deadman" switch at the nozzle end of the

sandblast hose.

CONSTRUCTION

**TUBE:** Premium-quality Versigard® synthetic rubber, RMA Class C (Limited Oil Resistance)

COVER: Yellow/Yellow Versigard, RMA Class C (Limited Oil Resistance)

**REINFORCEMENT:** Spiral-plied synthetic yarn

TEMPERATURE: -20°F to 190°F (-29°C to 88°C)

**PACKAGING:** 450'-750' reels, maximum 2 pieces, minimum length 25'

**BRANDING:** Continuous brand 3/16" ID (4.8mm) Sandblast Deadman. Made in USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 569-595 Yellow/Yellow

569-616 Red/Blue 569-627 Black/Yellow 569-676 Red/Black 569-696 Yellow/Gray 569-628 Blue/Blue

#### SANDBLAST DEADMAN

| I    | D       | NOM  | I. OD | MAX | . WP | WEIGHT  |        |  |
|------|---------|------|-------|-----|------|---------|--------|--|
| in.  | mm. in. |      | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 3/16 | 4.8     | 0.44 | 11.2  | 200 | 1.38 | 0.14    | 0.21   |  |

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

#### MATERIAL HANDLING

Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

#### MATERIAL HANDLING

Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

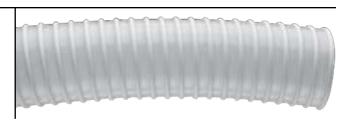
WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### SPIRAFLEX® AIR SEEDER HOSE



#### **Product Specifications**

NEW

**APPLICATION:** For dry conveying of seeds and other materials where abrasion is present and service conditions are moderate.

Excellent for low-pressure blowing applications.

CONSTRUCTION

**TUBE:** Clear thermoplastic urethane

COVER: Clear flexible vinyl

**REINFORCEMENT:** White rigid vinyl helix

**TEMPERATURE:** 0°F to 158°F ( - 18°C to 70°C)

**PACKAGING:** Coil wrapped with cardboard and stretch film

**BRANDING:** Date code only

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

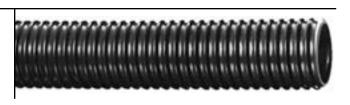
**ORDER CODES:** 586-450

### SPIRAFLEX® AIR SEEDER

| ı   | D     | NOM. OD |       | MAX. WP |     | BEND RADIUS |        | VACUUM HG |     | WEIGHT  |        |
|-----|-------|---------|-------|---------|-----|-------------|--------|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Мра | in.         | mm.    | in.       | mm. | lb./ft. | kg./m. |
| 1   | 25.4  | 1.25    | 32.0  | 60      | .41 | 3           | 76.19  | 29        | 737 | .195    | 0.29   |
| 1½  | 38.1  | 1.82    | 46.2  | 50      | .34 | 4           | 101.60 | 29        | 737 | .320    | 0.48   |
| 2   | 50.8  | 2.37    | 60.4  | 40      | .27 | 5           | 127.00 | 29        | 737 | .420    | 0.63   |
| 2½  | 63.5  | 2.87    | 72.9  | 40      | .27 | 7           | 177.79 | 29        | 737 | .650    | 0.99   |
| 3   | 76.2  | 3.42    | 86.8  | 35      | .24 | 8           | 203.20 | 29        | 737 | .890    | 1.33   |
| 4   | 101.6 | 4.50    | 114.4 | 27      | .18 | 11          | 279.4  | 29        | 737 | .997    | 1.48   |



### SPIRATHANE™ HD



### **Product Specifications**

**APPLICATION:** For dry pneumatic conveying of solids where heavy duty abrasive conditions are present. Sizes

1½"-5" rated to full vacuum.

CONSTRUCTION TUBE:

Polyurethane RMA Class B (Medium Oil Resistance) with improved abrasion resistance

**COVER:** High-density, low-temperature blue Pliovic® compound

REINFORCEMENT: High-density, rigid Pliovic® PVC helix

**TEMPERATURE:** 0°F to 158°F (-18°C to 70°C)

**PACKAGING:**  $1\frac{1}{2}$ "-6" 100' lengths, coiled and polywrapped

8"-10" 0' lengths, polytube with corrugated protection

BRANDING: Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 586-407

SPIRATHANE™ HD

|     | ID    | NOM   | 1. OD | MAX | . WP | BEND | RADIUS | VACUI | JM HG | WE      | GHT    |
|-----|-------|-------|-------|-----|------|------|--------|-------|-------|---------|--------|
| in. | mm.   | in.   | mm.   | psi | Мра  | in.  | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 1½  | 38.1  | 1.86  | 47.2  | 50  | 0.34 | 4    | 99     | 29    | 737   | 0.34    | 0.51   |
| 2   | 50.8  | 2.47  | 62.7  | 50  | 0.34 | 6    | 140    | 29    | 737   | 0.63    | 0.94   |
| 2½  | 63.5  | 3.12  | 79.3  | 50  | 0.34 | 7    | 178    | 29    | 737   | 0.95    | 1.41   |
| 3   | 76.2  | 3.64  | 92.5  | 40  | 0.28 | 8    | 203    | 29    | 737   | 1.37    | 2.04   |
| 4   | 101.6 | 4.77  | 121.2 | 35  | 0.24 | 14   | 356    | 29    | 737   | 1.98    | 2.95   |
| 5   | 127.0 | 5.83  | 148.1 | 30  | 0.21 | 20   | 508    | 29    | 737   | 2.41    | 3.59   |
| 6   | 152.4 | 6.84  | 173.7 | 23  | 0.16 | 25   | 635    | 25    | 635   | 3.08    | 4.58   |
| 8   | 203.2 | 8.75  | 222.3 | 20  | 0.14 | 48   | 1219   | 25    | 635   | 4.53    | 6.74   |
| 10  | 254.0 | 10.96 | 278.4 | 20  | 0.14 | 75   | 1905   | 25    | 635   | 6.36    | 9.46   |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

MARINE

#### MATERIAL HANDLING

Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING

Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

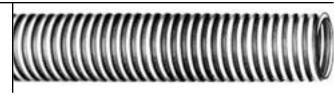
WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### SPIRATHANE™ PT



### **Product Specifications**



**APPLICATION:** For the transfer of a variety of dry, bulk, and abrasive materials. It is used in applications where

static electrical buildup is common. For powders, plastic pellets and granular materials.

CONSTRUCTION
TUBE: Polyurethane conforms to FDA standards.

COVER: High molecular weight, clear PVC, corrugated for flexibility.

**REINFORCEMENT:** High-density, rigid Pliovic® PVC helix with static wire placed between tube and cover.

**TEMPERATURE:** 0°F to 158°F (-18°C to 70°C)

PACKAGING: 100' lengths, coiled and polywrapped

BRANDING: Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

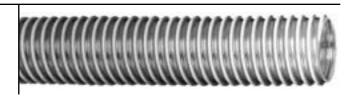
**ORDER CODES:** 586-489

#### **SPIRATHANE™ PT**

| ı    | D     | NOM  | I. OD | MAX | . WP | BEND I | RADIUS | VACUI | JM HG | WE      | IGHT   |
|------|-------|------|-------|-----|------|--------|--------|-------|-------|---------|--------|
| in.  | mm.   | in.  | mm.   | psi | Мра  | in.    | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 1½   | 38.1  | 1.82 | 46.2  | 45  | 0.31 | 4      | 102    | 29    | 737   | 0.31    | 0.46   |
| 1¾   | 44.5  | 2.15 | 54.6  | 45  | 0.31 | 5      | 127    | 29    | 737   | 0.38    | 0.57   |
| 2    | 50.8  | 2.38 | 60.5  | 30  | 0.21 | 6      | 152    | 29    | 737   | 0.52    | 0.77   |
| 21/4 | 57.2  | 2.77 | 70.4  | 35  | 0.24 | 7      | 165    | 29    | 737   | 0.63    | 0.94   |
| 2½   | 63.5  | 3.03 | 77.0  | 30  | 0.21 | 7      | 178    | 29    | 737   | 0.69    | 1.03   |
| 3    | 76.2  | 3.63 | 92.2  | 30  | 0.21 | 8      | 203    | 29    | 737   | 1.15    | 1.71   |
| 4    | 101.6 | 4.76 | 120.9 | 27  | 0.19 | 14     | 356    | 29    | 737   | 1.63    | 2.43   |
| 5    | 127.0 | 5.83 | 148.1 | 27  | 0.19 | 20     | 508    | 29    | 737   | 2.13    | 3.17   |



### SPIRATHANE™ LD



### **Product Specifications**

APPLICATION: For dry pneumatic conveying of solid fines where abrasion is present and service conditions are

moderate. Excellent for low-pressure blowing applications.

CONSTRUCTION

TUBE: Clear Polyurethane, RMA Class B (Medium Oil Resistance)

**REINFORCEMENT:** High-density rigid white Pliovic® helix

**TEMPERATURE:** 0°F to 158°F (-18°C to 70°C)

**PACKAGING:** 1½"-6" 100' lengths, coiled and polywrapped

8"-10" 20' lengths, polywrapped with corrugated protection

BRANDING: Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 586-406

#### **SPIRATHANE™ LD**

| ı   | D     | NOM   | 1. OD | MAX | . WP | BEND I | RADIUS | VACUL | JM HG | WEI     | IGHT   |
|-----|-------|-------|-------|-----|------|--------|--------|-------|-------|---------|--------|
| in. | mm.   | in.   | mm.   | psi | Мра  | in.    | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 1½  | 38.1  | 1.84  | 46.7  | 30  | 0.21 | 2      | 51     | 22    | 559   | 0.25    | 0.37   |
| 2   | 50.8  | 2.35  | 59.7  | 25  | 0.17 | 3      | 71     | 21    | 533   | 0.34    | 0.51   |
| 2½  | 63.5  | 2.89  | 73.4  | 20  | 0.14 | 4      | 89     | 19    | 483   | 0.44    | 0.65   |
| 3   | 76.2  | 3.45  | 87.6  | 20  | 0.14 | 4      | 102    | 18    | 457   | 0.60    | 0.89   |
| 4   | 101.6 | 4.53  | 115.1 | 15  | 0.10 | 7      | 178    | 13    | 330   | 0.88    | 1.31   |
| 5   | 127.0 | 5.56  | 141.2 | 10  | 0.07 | 8      | 203    | 10    | 254   | 1.09    | 1.62   |
| 6   | 152.4 | 6.57  | 166.9 | 10  | 0.07 | 12     | 305    | 7     | 178   | 1.53    | 2.28   |
| 8   | 203.2 | 8.59  | 218.2 | 6   | 0.04 | 23     | 584    | 5     | 127   | 1.73    | 2.57   |
| 10  | 254.0 | 10.75 | 273.1 | 5   | 0.03 | 30     | 762    | 4     | 102   | 2.75    | 4.09   |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING

Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

Discharge Suction & Discharge

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **BULK TRANSFER**



|                                    | Page | Food Grade | Static Dissipating/<br>Static Conducting Tube | Temp Range     | Suction | Discharge Only |
|------------------------------------|------|------------|---|----------------|---------|----------------|
| Black Softwall                     | 121  |            | Yes   | -25°F to 180°F |         | Yes            |
| Flextra® Dry Material              | 124  |            | Yes   | -40°F to 180°F | Yes     |                |
| Plicord® Torridair™ Hot Air Blower | 122  |            |   | -40°F to 400°F | Yes     |                |
| Pyroflex® II Hot Air               | 123  |            |   | -20°F to 325°F | Yes     |                |
| Spiraflex® Mulch Blower            | 125  |            |   | 0°F to 158°F   |         |                |
| Tan Flextra®                       | 127  | Yes        |   | -40°F to 180°F | Yes     |                |
| Tan Flexwing®                      | 126  | Yes        |   | -40°F to 180°F | Yes     |                |
| Tan Softwall                       | 128  | Yes        |   | -40°F to 180°F |         | Yes            |



### **BLACK SOFTWALL**



#### **Product Specifications**

For the discharge of dry bulk cement from tank truck and in-plant service. APPLICATION:

CONSTRUCTION

TUBE: 1/8" (static dissipating/static conductive) Black Tufsyn® synthetic rubber. Available in 1/8",

3/16", and 1/4" tube gauges

COVER: Black Plioflex® synthetic rubber with white spiral stripe (wrapped impression)

REINFORCEMENT: Spiral-plied synthetic fabric

TEMPERATURE: -25°F to 180°F (-32°C to 82°C)

PACKAGING: 100' lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Goodyear® Black Softwall

> Contact fitting manufacturer for proper fitting recommendation and coupling procedure. Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product. See the **COUPLINGS:**

Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

549-152 (1/8" tube gauge 50psi) ORDER CODES: 549-149 (3/16" tube gauge 75psi)

549-148 (1/4" tube gauge 50psi)

| BLACK S | OFTWALL | ORDER C | <b>ODES:</b> 549-152-0 |
|---------|---------|---------|------------------------|
| DIA     | ID      | OD      | WEIGHT                 |
| PO      | mm.     | mm.     | #/ft.                  |
| 1¾      | 45.1    | 57.5    | 0.81                   |
| 2       | 51.2    | 61.4    | 0.73                   |
| 21/4    | 57.4    | 72.6    | 1.26                   |
| 3       | 76.1    | 86.3    | 1.05                   |
| 3½      | 90.0    | 100.2   | 1.23                   |
| 4       | 102.1   | 112.3   | 1.38                   |
| 4½      | 114.6   | 125.4   | 1.64                   |
| 5       | 127.4   | 138.2   | 1.82                   |
| 6       | 152.7   | 163.9   | 2.25                   |

| BLACK S | OFTWALL | <b>ORDER CODES:</b> 549-149-0 |        |  |  |  |  |
|---------|---------|-------------------------------|--------|--|--|--|--|
| DIA     | ID      | OD                            | WEIGHT |  |  |  |  |
| PO      | mm.     | mm.                           | #/ft.  |  |  |  |  |
| 2       | 51.2    | 64.6                          | 0.98   |  |  |  |  |
| 21/4    | 57.4    | 72.6                          | 1.25   |  |  |  |  |
| 4       | 102.1   | 116.2                         | 1.92   |  |  |  |  |
| 4½      | 114.6   | 129.0                         | 2.21   |  |  |  |  |
| 5       | 127.4   | 141.8                         | 2.44   |  |  |  |  |
| 5½      | 140.1   | 154.5                         | 2.67   |  |  |  |  |
| 6       | 152.7   | 167.7                         | 3.01   |  |  |  |  |

| BLACK S | OFTWALL | ORDER CODES: 549-148-0 |        |  |  |  |  |
|---------|---------|------------------------|--------|--|--|--|--|
| DIA     | ID      | OD                     | WEIGHT |  |  |  |  |
| PO      | mm.     | mm.                    | #/ft.  |  |  |  |  |
| 2       | 51.2    | 67.8                   | 1.24   |  |  |  |  |
| 23/8    | 60.8    | 77.4                   | 1.43   |  |  |  |  |
| 4       | 102.1   | 118.7                  | 2.29   |  |  |  |  |
| 4½      | 114.6   | 131.8                  | 2.65   |  |  |  |  |
| 5       | 127.4   | 145.0                  | 3      |  |  |  |  |
| 6       | 152.7   | 170.3                  | 3.56   |  |  |  |  |



AIR & **MULTIPURPOSE** Heavy Duty

**CLEANING EQUIPMENT** 

> FOOD Transfer

> > MARINE

**MATERIAL HANDLING** Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

Suction &

WELDING

COUPLING **SYSTEMS** 

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### PLICORD® TORRIDAIR™ HOT AIR BLOWER



### **Product Specifications**

APPLICATION: Designed to transfer hot, non-oily air (up to 400°F) from manifold blowers or in-plant compressors

to holding tanks used in the transfer of dry bulk materials.

CONSTRUCTION
TUBE: Black, STF (Super Thermo-Flo) Versigard® synthetic rubber

COVER: Black, weather-resistant, STF (Super Thermo-Flo) Versigard® synthetic rubber

(wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with double wire helix

**TEMPERATURE:**  $-40^{\circ}\text{F}$  to  $400^{\circ}\text{F}$  ( $-40^{\circ}\text{C}$  to  $204^{\circ}\text{C}$ )

PACKAGING: 100' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Torridair™ Blower Hose 400°F

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure. Use

Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product. See the

Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-856

#### PLICORD® TORRIDAIR™

| ı    | D     | NON  | 1. OD | MAX | . WP | BEND I | RADIUS | VACUI | JM HG | WEI     | IGHT   |
|------|-------|------|-------|-----|------|--------|--------|-------|-------|---------|--------|
| in.  | mm.   | in.  | mm.   | psi | Мра  | in.    | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 11/4 | 31.8  | 1.73 | 44.0  | 100 | 0.52 | 3      | 75     | 29    | 737   | 0.66    | 0.98   |
| 1½   | 38.1  | 1.97 | 50.1  | 100 | 0.52 | 4      | 100    | 29    | 737   | 0.79    | 1.18   |
| 2    | 50.8  | 2.51 | 63.8  | 100 | 0.52 | 5      | 127    | 29    | 737   | 1.06    | 1.58   |
| 2½   | 63.5  | 3.00 | 76.2  | 100 | 0.52 | 6      | 152    | 29    | 737   | 1.35    | 2.01   |
| 3    | 76.2  | 3.53 | 89.7  | 100 | 0.52 | 7      | 178    | 29    | 737   | 1.84    | 2.74   |
| 4    | 101.6 | 4.60 | 116.8 | 100 | 0.69 | 16     | 400    | 29    | 737   | 2.47    | 3.68   |
| 4½   | 114.3 | 5.14 | 130.5 | 100 | 0.69 | 20     | 500    | 29    | 737   | 2.93    | 4.37   |
| 5    | 127.0 | 5.65 | 143.5 | 100 | 0.69 | 25     | 625    | 29    | 737   | 3.56    | 5.30   |
| 6    | 152.4 | 6.70 | 170.0 | 100 | 0.69 | 30     | 750    | 29    | 737   | 4.46    | 6.65   |



### PYROFLEX® II HOT AIR



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **Product Specifications**

**APPLICATION:** For conveying hot air from compressors to tanks on bulk dry material carriers.

CONSTRUCTION

TUBE:

Black heat-resistant Versigard® synthetic rubber

**COVER:** Heat-resistant black Versigard synthetic rubber with orange spiral stripe (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

**TEMPERATURE:** -20°F to 325°F (-29°C to 163°C)

PACKAGING: 100' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Pyroflex® II Hot Air

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure. Use

Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product. See the

Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-394

### PYROFLEX® II HOT AIR

| ı   | D     | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|-----|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 2   | 50.8  | 2.55    | 64.8  | 100     | 0.34 | 5           | 127 | 29        | 737 | 1.22    | 1.82   |
| 3   | 76.2  | 3.55    | 90.2  | 100     | 0.34 | 7           | 178 | 29        | 737 | 1.93    | 2.87   |
| 4   | 101.6 | 4.61    | 117.1 | 100     | 0.34 | 10          | 254 | 29        | 737 | 2.65    | 3.94   |
| 5   | 127.0 | 5.60    | 142.3 | 100     | 0.35 | 25          | 625 | 29        | 737 | 3.78    | 5.63   |
| 6   | 152.4 | 6.74    | 171.1 | 100     | 0.35 | 30          | 750 | 29        | 737 | 4.80    | 7.15   |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### FLEXTRA® DRY MATERIAL



### **Product Specifications**

**APPLICATION:** A static dissipating/static conductive hose for tank truck and in-plant service. Used to convey

nonoily abrasive materials such as sand, limestone and plastic pellets. Recommended where

static buildup can be a problem.

CONSTRUCTION

**TUBE:** 3/16" Gauge Black Tufsyn® synthetic rubber (static dissipating/static conductive)

**COVER:** Black Plioflex® synthetic rubber (corrugated) with yellow spiral band (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

**TEMPERATURE**: -40°F to 180°F (-40°C to 82°C)

PACKAGING: 100' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Flextra® Dry Material 75 psi WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-126

#### FLEXTRA® DRY MATERIAL

| ı   | D     | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|-----|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1   | 25.4  | 1.58    | 40.1  | 75      | 0.52 | 3           | 76  | 29        | 737 | 0.68    | 1.01   |
| 1½  | 38.1  | 2.11    | 53.6  | 75      | 0.52 | 4           | 89  | 29        | 737 | 1.03    | 1.53   |
| 2   | 50.8  | 2.63    | 66.8  | 75      | 0.52 | 4           | 102 | 29        | 737 | 1.29    | 1.92   |
| 2½  | 63.5  | 3.13    | 79.5  | 75      | 0.52 | 5           | 127 | 29        | 737 | 1.65    | 2.46   |
| 3   | 76.2  | 3.69    | 93.7  | 75      | 0.52 | 6           | 152 | 29        | 737 | 2.15    | 3.20   |
| 4   | 101.6 | 4.75    | 120.7 | 75      | 0.52 | 9           | 229 | 29        | 737 | 3.09    | 4.60   |
| 5   | 127.0 | 5.78    | 146.9 | 75      | 0.52 | 20          | 500 | 29        | 737 | 4.16    | 6.20   |
| 6   | 152.4 | 6.81    | 173.1 | 75      | 0.52 | 24          | 600 | 29        | 737 | 5.47    | 8.15   |



## SPIRAFLEX® MULCH BLOWER





### **Product Specifications**

**APPLICATION:** For dry conveying of mulch and other materials where abrasion is present and service conditions are moderate.

Excellent for low-pressure blowing applications.

CONSTRUCTION

TUBE: Clear Flexible PVC

**REINFORCEMENT:** Black Rigid PVC Helix

**TEMPERATURE:**  $0^{\circ}F$  to  $158^{\circ}F$  ( $-18^{\circ}C$  to  $70^{\circ}C$ )

PACKAGING: 50'/100' coils. Covered with corrugated cardboard and wrapped with clear stretch film

BRANDING: Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**ORDER CODES:** 586-479

### SPIRAFLEX® MULCH BLOWER

| - 1 | ID    |      | NOM. OD |     | MAX. WP |     | BEND RADIUS |     | VACUUM HG |         | WEIGHT |  |
|-----|-------|------|---------|-----|---------|-----|-------------|-----|-----------|---------|--------|--|
| in. | mm.   | in.  | mm.     | psi | Мра     | in. | mm.         | in. | mm.       | lb./ft. | kg./m. |  |
| 4   | 101.6 | 4.46 | 113.2   | 15  | 0.10    | 6   | 152.4       | 29  | 737       | 1.00    | 1.49   |  |
| 5   | 127.0 | 5.61 | 142.4   | 15  | 0.10    | 9   | 228.6       | 29  | 737       | 1.60    | 2.38   |  |
| 6   | 152.4 | 6.54 | 166.2   | 15  | 0.10    | 15  | 381.0       | 29  | 737       | 2.00    | 2.98   |  |

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### TAN FLEXWING®



### **Product Specifications**

**APPLICATION:** Tan Flexwing® is for acids, alcohol bases and salt solutions.

CONSTRUCTION

**TUBE:** Tan Pureten<sup>™</sup> gum rubber (non oil-resistant) (FDA/USDA compliant)

**COVER:** Tan Plioflex® synthetic rubber (non oil-resistant) with blue spiral stripe (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

TEMPERATURE: -40°F to 180°F (-40°C to 82°C)

PACKAGING: 100' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Tan Flexwing® with Pureten™ 150 psi WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

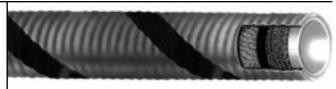
**ORDER CODES:** 546-068

#### TAN FLEXWING®

| ı    | D     | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|------|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in.  | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1    | 25.4  | 1.61    | 40.9  | 150     | 1.03 | 3.5         | 89  | 29        | 737 | 0.75    | 1.12   |
| 11/4 | 31.8  | 1.91    | 48.5  | 150     | 1.03 | 4.0         | 102 | 29        | 737 | 0.95    | 1.41   |
| 1½   | 38.1  | 2.14    | 54.4  | 150     | 1.03 | 4.0         | 102 | 29        | 737 | 1.08    | 1.61   |
| 2    | 50.8  | 2.68    | 68.1  | 150     | 1.03 | 5.0         | 127 | 29        | 737 | 1.44    | 2.14   |
| 2½   | 63.5  | 3.24    | 82.3  | 150     | 1.03 | 6.0         | 152 | 29        | 737 | 1.93    | 2.87   |
| 3    | 76.2  | 3.75    | 95.3  | 150     | 1.03 | 7.0         | 178 | 29        | 737 | 2.32    | 3.45   |
| 4    | 101.6 | 4.83    | 122.7 | 150     | 1.03 | 10.0        | 254 | 29        | 737 | 3.39    | 5.04   |
| 6    | 152.4 | 6.96    | 176.8 | 150     | 1.03 | 30.0        | 762 | 29        | 737 | 6.04    | 8.99   |



### TAN FLEXTRA®



### **Product Specifications**

APPLICATION:

For tank truck and in-plant service. Used to convey non-oily abrasive materials such as sand,

limestone, plastic pellets and dry abrasive food products.

CONSTRUCTION

TUBE:

Pureten<sup>™</sup> gum rubber (FDA/USDA compliant)

**COVER:** Tan Plioflex® gum rubber (corrugated) with yellow spiral stripe (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

**TEMPERATURE:** -40°F to 180°F (-40°C to 82°C)

**PACKAGING:** 1½"-4" 100' lengths, coiled and polywrapped

5"-6" 50' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Tan Flextra® with Pureten™ 75 psi WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-116

| ı   | D     | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|-----|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1½  | 38.0  | 2.09    | 53.1  | 75      | 0.52 | 4           | 102 | 29        | 737 | 0.99    | 1.47   |
| 2   | 50.8  | 2.60    | 66.0  | 75      | 0.52 | 4           | 102 | 29        | 737 | 1.21    | 1.80   |
| 3   | 76.2  | 3.63    | 92.2  | 75      | 0.52 | 6           | 152 | 29        | 737 | 1.94    | 2.89   |
| 4   | 101.6 | 4.69    | 119.1 | 75      | 0.52 | 9           | 229 | 29        | 737 | 2.74    | 4.08   |
| 5   | 127.0 | 5.78    | 146.8 | 75      | 0.52 | 12          | 305 | 29        | 737 | 4.26    | 6.34   |
| 6   | 152.4 | 6.78    | 172.2 | 75      | 0.52 | 15          | 381 | 29        | 737 | 4.92    | 7.32   |

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### TAN SOFTWALL



### **Product Specifications**



**APPLICATION:** A fabric-reinforced hose for the discharge of nonoily abrasive materials such as sand,

limestone, gravel, plastic pellets and dry food products. For use where static electrical buildup

is not a problem.

CONSTRUCTION

**TUBE**: Tan Pureten<sup>™</sup> gum rubber (FDA/USDA compliant)

**COVER:** Tan Plioflex® synthetic rubber (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with static wire

TEMPERATURE: -40°F to 180°F (-40°C to 82°C)

PACKAGING: 2"-4" 100' lengths, coiled and polywrapped

5"-6" 50' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Tan Softwall with Pureten™ 75 psi WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-040

#### **TAN SOFTWALL**

| 1   | D     | NOM  | . OD MAX. |     | . WP | WEI     | GHT    |
|-----|-------|------|-----------|-----|------|---------|--------|
| in. | mm.   | in.  | mm.       | psi | Мра  | lb./ft. | kg./m. |
| 2   | 50.8  | 2.68 | 68.1      | 75  | 0.52 | 1.22    | 1.82   |
| 3   | 76.2  | 3.69 | 93.7      | 75  | 0.52 | 1.80    | 2.68   |
| 4   | 101.6 | 4.78 | 121.4     | 75  | 0.52 | 2.61    | 3.88   |
| 5   | 127.0 | 5.77 | 146.6     | 75  | 0.52 | 3.19    | 4.75   |
| 6   | 152.4 | 6.77 | 172.0     | 75  | 0.52 | 3.78    | 5.63   |



# CEMENT & CONCRETE



|   | Page | Textile | Wire |
|---|------|---------|------|
| Allcrete® Textile (plaster, grout & concrete) | 131  | Yes     |      |
| Allcrete® Wire                                | 132  |         | Yes  |
| PGC Placement Textile                         | 133  | Yes     |      |
| Plicord® Auger Arc Piling                     | 130  | Yes     |      |
| Plicord® Gunite (tan)                         | 134  | Yes     |      |

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLICORD® AUGER ARC PILING



#### **Product Specifications**

**APPLICATION:** For use in handling a multitude of materials being pumped to concrete forms and structures.

CONSTRUCTION

TUBE: Black Tufsyn®

**COVER:** Black SBR with gray abrasion-resistant spiral strip

**REINFORCEMENT:** 6 fabric plies with boot straps

TEMPERATURE: -35°F to 180°F (-37°C to 82°C)

PACKAGING: 50' lengths, coiled and poly-wrapped

**BRANDING (SPIRAL):** Example: Goodyear® Auger ARC Piling

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-815

#### PLICORD® AUGER ARC PILING

| ID  |      | NOM. OD |       | MAX  | . WP | WEIGHT  |        |  |
|-----|------|---------|-------|------|------|---------|--------|--|
| in. | mm.  | in.     | mm.   | psi  | Мра  | lb./ft. | kg./m. |  |
| 2   | 50.8 | 3.03    | 77.0  | 1000 | 6.9  | 1.92    | 2.86   |  |
| 2½  | 63.5 | 3.48    | 88.4  | 800  | 5.5  | 2.18    | 3.24   |  |
| 3   | 76.2 | 4.02    | 102.1 | 800  | 5.5  | 2.66    | 3.96   |  |



# ALLCRETE® TEXTILE PLASTER, GROUT & CONCRETE



#### **Product Specifications**

**APPLICATION:** For use in plaster & grout and shotcrete applications, handling a multitude of materials being

pumped to concrete structures, dams, tunnel faces, swimming pools, etc. For use as a flexible connection between pumping equipment and hard piping. Exceeds ASME B30.27-2009.

2:1 WP to burst ratio.

CONSTRUCTION

**TUBE:** Black Tufsyn® synthetic rubber

**COVER:** Black Plioflex® rubber (wrapped impression)

**REINFORCEMENT:** Spiral-plied high-strength fabric

**TEMPERATURE:** -25°F to 180°F (-32°C to 82°C)

PACKAGING: 50' lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Allcrete® Textile Ply Plaster, Grout Concrete Goodyear® 2" 1233 psi / 85 Bars WP

Weight filled with concrete (150 lbs/ft3). Exceeds ASME B30.27-2009

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-638

**ALLCRETE® TEXTILE** 

| ID   |       | NOM. OD |       | MAX  | . WP | WEIGHT  |        |  |
|------|-------|---------|-------|------|------|---------|--------|--|
| in.  | mm.   | in.     | mm.   | psi  | Мра  | lb./ft. | kg./m. |  |
| 1    | 25.4  | 1.67    | 42.3  | 1233 | 8.5  | 0.67    | 1.00   |  |
| 11/4 | 32.0  | 1.93    | 49.0  | 1233 | 8.5  | 0.80    | 1.19   |  |
| 1½   | 38.1  | 2.31    | 58.7  | 1233 | 8.5  | 1.14    | 1.70   |  |
| 2    | 51.6  | 2.83    | 71.8  | 1233 | 8.5  | 1.46    | 2.18   |  |
| 21/2 | 63.7  | 3.40    | 86.3  | 1233 | 8.5  | 1.96    | 2.92   |  |
| 3    | 76.1  | 3.92    | 99.6  | 1233 | 8.5  | 2.39    | 3.56   |  |
| 4    | 102.1 | 4.96    | 126.0 | 1233 | 8.5  | 3.16    | 4.67   |  |
| 5    | 127.0 | 6.06    | 153.3 | 1233 | 8.5  | 4.22    | 6.25   |  |

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM VEYANCE

WATER
Discharge
Suction &

Discharge Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### ALLCRETE® WIRE



### **Product Specifications**

**APPLICATION:** For handling wet concrete with high head pressures at the critical flex areas of a concrete boom

truck and as a discharge hose on the delivery end of high-pressure concrete pumps. Exceeds ASME

B30.27-2009. 2:1 WP to burst ratio.

CONSTRUCTION

**TUBE:** Black Tufsyn® synthetic rubber

**COVER:** Black Plioflex® rubber (wrapped impression)

**REINFORCEMENT:** Spiral-plied high-strength wire

**TEMPERATURE:** -40°F to 180°F (-40°C to 82°C)

PACKAGING: 50' lengths, coiled and polywrapped

BRANDING (SPIRAL): Allcrete® Steel Reinforced Concrete Hose Goodyear® 3" ID 1233 psi / 85 Bars WP. Weight filled

with concrete (150 lbs/ft3). Exceeds ASME B30.27-2009

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-670

#### **ALLCRETE® WIRE**

| ID |     | NOM. OD |      | MAX. WP |      | BEND RADIUS |     | WEIGHT |         |        |  |
|----|-----|---------|------|---------|------|-------------|-----|--------|---------|--------|--|
| I  | in. | mm.     | in.  | mm.     | psi  | Мра         | in. | mm.    | lb./ft. | kg./m. |  |
| _  | 2   | 50.8    | 3.01 | 76.4    | 1233 | 8.5         | 9   | 275    | 2.75    | 4.10   |  |
|    | 2½  | 63.5    | 3.50 | 88.9    | 1233 | 8.5         | 12  | 300    | 3.28    | 4.92   |  |
|    | 3   | 76.2    | 3.98 | 101.3   | 1233 | 8.5         | 14  | 350    | 3.80    | 5.65   |  |
|    | 4   | 101.6   | 5.02 | 127.4   | 1233 | 8.5         | 16  | 400    | 4.90    | 7.29   |  |
|    | 5   | 127.0   | 6.00 | 152.5   | 1233 | 8.5         | 20  | 500    | 5.98    | 8.90   |  |



## PGC PLACEMENT TEXTILE





### **Product Specifications**

**APPLICATION:** An economical version of our Plicord® Allcrete® Textile hose. For use in plaster & grout and shotcrete

applications, handling a multitude of materials being pumped to concrete structures, dams, tunnel faces,

swimming pools, etc. Meets ASME B30.27-2009. 2:1 WP to burst ratio.

CONSTRUCTION

TUBE: Black Tufsyn® synthetic rubber

**COVER:** Black Plioflex® rubber (wrapped impression).

**REINFORCEMENT:** Spiral-plied high-strength fabric.

**TEMPERATURE:** -25°F to 180°F (-32°C to 82°C)

PACKAGING: 50' lengths, coiled and polywrapped.

BRANDING (SPIRAL): Goodyear® PGC Concrete 1,233 psi / 85 Bars WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-822

| Ρ | GC | PLA | CEN | TEX |  |
|---|----|-----|-----|-----|--|
|   |    |     |     |     |  |

| ID   |       | NOM. OD |       | MAX   | . WP | WEIGHT  |        |  |
|------|-------|---------|-------|-------|------|---------|--------|--|
| in.  | mm.   | in.     | mm.   | psi   | Мра  | lb./ft. | kg./m. |  |
| 1    | 25.3  | 1.56    | 39.7  | 1,233 | 8.5  | 0.58    | 0.86   |  |
| 11/4 | 32.0  | 1.88    | 47.7  | 1,233 | 8.5  | 0.76    | 1.13   |  |
| 1½   | 38.0  | 2.13    | 53.7  | 1,233 | 8.5  | 0.87    | 1.30   |  |
| 2    | 51.2  | 2.69    | 67.1  | 1,233 | 8.5  | 1.13    | 1.68   |  |
| 2½   | 63.4  | 3.25    | 82.3  | 1,233 | 8.5  | 1.59    | 2.37   |  |
| 3    | 76.1  | 3.81    | 96.8  | 1,233 | 8.5  | 2.12    | 3.16   |  |
| 3½   | 90.0  | 4.38    | 111.9 | 1,233 | 8.5  | 2.63    | 3.92   |  |
| 4    | 102.0 | 4.94    | 125.6 | 1,233 | 8.5  | 3.10    | 4.62   |  |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

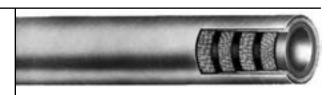
WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLICORD® GUNITE



#### **Product Specifications**

APPLICATION: For the efficient transfer of sand and cement to the placement mixing gun nozzle. Recommended

for all types of gunning applications.

CONSTRUCTION

**TUBE:** Tan Pureten<sup>™</sup> gum rubber or black Tufsyn<sup>®</sup> rubber

**COVER:** Tan Plioflex® synthetic rubber (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric

TEMPERATURE: -40°F to 180°F (-40°C to 82°C)

PACKAGING: 50' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Gunite 150 Max WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-862 (tan Pureten)

549-863 (black Tufsyn)

549-865 (tan Pureten with anti-static wires)

#### PLICORD® GUNITE

| ID   |      | NOM. OD |      | MAX | . WP | WEIGHT  |        |  |
|------|------|---------|------|-----|------|---------|--------|--|
| in.  | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |  |
| 11/4 | 31.8 | 2.16    | 54.9 | 150 | 1.03 | 1.24    | 1.85   |  |
| 1½   | 38.1 | 2.43    | 61.7 | 150 | 1.03 | 1.48    | 2.20   |  |
| 1%   | 41.3 | 2.58    | 65.5 | 150 | 1.03 | 1.60    | 2.38   |  |
| 1¾   | 44.5 | 2.70    | 68.6 | 150 | 1.03 | 1.68    | 2.50   |  |
| 2    | 50.8 | 2.94    | 74.7 | 150 | 1.03 | 1.86    | 2.77   |  |



### **MINING**



|  | Page | Thermoplastic | Rubber | MSHA | Temp Range     | Static Dissipating Tube |
|--|------|---------------|--------|------|----------------|-------------------------|
| Brigade <sup>™</sup> Mine                          | 137  | Yes           |        | Yes  | -10°F to 150°F |                         |
| Flextra® Rock Dust                                 | 138  |               | Yes    | Yes  | -25°F to 200°F | Yes                     |
| M&P Mine Conduit                                   | 139  |               | Yes    | Yes  | -20°F to 200°F |                         |
| Mine Spray   | 136  |               | Yes    | Yes  | 0°F to 200°F   |                         |
| Plicord® Ammonium Nitrate Pellet                   | 140  |               | Yes    |      | -25°F to 200°F | Yes                     |
| Plicord® Mine Conduit                              | 141  |               | Yes    | Yes  | -40°F to 200°F |                         |
| Spiraflex® Cable Guard                             | 142  | Yes           |        | Yes  | 0°F to 150°F   |                         |
| Spiraflex® Red                                     | 221  | Yes           |        | Yes  | -10°F to 150°F |                         |
| Spiraflex® Rock Dust                               | 143  | Yes           |        | Yes  | 0°F to 158°F   |                         |
| Spiraflex® Yellow                                  | 222  | Yes           |        | Yes  | -10°F to 150°F |                         |
| TunnelCote <sup>™</sup><br>Rock Dust - Black Cover | 144  |               | Yes    | Yes  | -25°F to 200°F | Yes                     |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

#### MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



### MINING

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

#### **MINING**

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

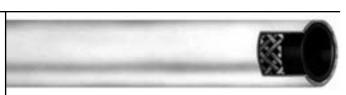
WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### MINE SPRAY



#### **Product Specifications**

**APPLICATION:** For general underground water spray service in dust control applications. It is also used on continuous mining machinery at the headface and on other mechanical mining machines.

CONSTRUCTION
TUBE: Nitrile synthetic rubber RMA Class B (medium oil resistance)

**COVER:** Yellow Chemivic™ synthetic rubber RMA Class B (medium oil resistance) (Meets flame test

requirements of MSHA Schedule 26-Section 18.65), smooth finish

**REINFORCEMENT:** Braided (1) steel wire

TEMPERATURE: 0°F to 200°F (-18°C to 93°C)

**PACKAGING:** 3/4" 500' reels or 50' cut lengths, 20 pieces per carton

1" 500' reels or 50' cut lengths, 12 pieces per carton 1¼" 500' reels or 50' cut lengths, 8 pieces per carton 1½" 300' reels or 50' cut lengths, 6 pieces per carton 2" 50' cut lengths, 4 pieces per carton

2 30 cut longths, 4 pieces per curton

BRANDING: Example: Goodyear® 1" Mine Spray 1000 psi WP, Fire-Resistant, USMSHA IC-11/9. Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 539-421

#### **MINE SPRAY**

| ID   |      | NOM. OD |      | MAX  | . WP | WEIGHT  |        |  |
|------|------|---------|------|------|------|---------|--------|--|
| in.  | mm.  | in.     | mm.  | psi  | Мра  | lb./ft. | kg./m. |  |
| 3/4  | 19.1 | 1.14    | 29.0 | 1000 | 6.9  | 0.44    | 0.65   |  |
| 1    | 25.4 | 1.45    | 36.8 | 1000 | 6.9  | 0.63    | 0.94   |  |
| 11/4 | 31.8 | 1.75    | 44.5 | 1000 | 6.9  | 0.86    | 1.28   |  |
| 1½   | 38.1 | 1.98    | 50.3 | 1000 | 6.9  | 1.08    | 1.61   |  |
| 2    | 50.8 | 2.55    | 64.8 | 1000 | 6.9  | 1.57    | 2.34   |  |



### BRIGADE™ MINE



### **Product Specifications**

**APPLICATION:** For use as a mine fire protection hose in underground mines.

CONSTRUCTION

TUBE: Black fire-resistant Pliovic®

**COVER:** Orange fire-resistant Pliovic

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE:** -10°F to 150°F (-23°C to 66°C)

**PACKAGING:** 1½" 500' continuous one piece, coiled and banded

2" 400' continuous one piece, coiled and banded 2½" 300' continuous one piece, coiled and banded

**BRANDING (SPIRAL):** Example: Goodyear® Brigade™ Mine Flame-Resistant, USMSHA No. 2G14. 2" (52.6mm) 150 psi

(1.03 Mpa). Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

68.1

**ORDER CODES:** 537-506 (150 psi) 537-508 (200 psi)

2.68

| BRIGADE" | BRIGADE™ MINE |         |      |     |      |         |        |  |  |  |  |  |  |
|----------|---------------|---------|------|-----|------|---------|--------|--|--|--|--|--|--|
| ID       |               | NOM. OD |      | MAX | . WP | WEIGHT  |        |  |  |  |  |  |  |
| in.      | mm.           | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |  |  |  |  |  |  |
| 1½       | 38.1          | 1.75    | 44.5 | 150 | 1.03 | 0.23    | 0.34   |  |  |  |  |  |  |
| 2        | 50.8          | 2.27    | 57.7 | 150 | 1.03 | 0.34    | 0.51   |  |  |  |  |  |  |
| 21/2     | 63.5          | 2.83    | 71.9 | 150 | 1.03 | 0.51    | 0.76   |  |  |  |  |  |  |
| 1½       | 38.1          | 1.72    | 43.7 | 200 | 1.38 | 0.25    | 0.37   |  |  |  |  |  |  |
| 2        | 50.8          | 2.29    | 58.2 | 200 | 1.38 | 0.36    | 0.54   |  |  |  |  |  |  |

200

1.38

0.51

0.76

Note: Working pressures are rated at 72°F.

63.5

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

#### **MINING**

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



### MINING

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

#### **MINING**

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### FLEXTRA® ROCK DUST



### **Product Specifications**

APPLICATION: For handling rock dust operations in underground mines.

CONSTRUCTION

**TUBE:** Black Tufsyn® synthetic rubber (static dissipating/static conductive)

**COVER:** Yellow Chemivic<sup>™</sup> synthetic rubber, flame-resistant (MSHA) (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

**TEMPERATURE:** -25°F to 200°F (-32°C to 93°C)

PACKAGING: 50' lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Goodyear® Rock Dust Flame-Resistant MSHA IC 11/7

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure. Soft-

cuffed ends available upon special request.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-668

#### FLEXTRA® ROCK DUST

| 1    | ID NOM. OD |      | MAX. WP |     | BEND RADIUS |     | VACUUM HG |     | WEIGHT |         |        |
|------|------------|------|---------|-----|-------------|-----|-----------|-----|--------|---------|--------|
| in.  | mm.        | in.  | mm.     | psi | Мра         | in. | mm.       | in. | mm.    | lb./ft. | kg./m. |
| 11/4 | 31.8       | 1.59 | 40.5    | 100 | 0.69        | 6   | 152       | 29  | 737    | 0.48    | 0.72   |
| 1½   | 38.1       | 1.85 | 46.9    | 100 | 0.69        | 6   | 152       | 29  | 737    | 0.60    | 0.89   |
| 2    | 50.8       | 2.37 | 60.3    | 100 | 0.69        | 8   | 203       | 29  | 737    | 0.80    | 1.19   |
| 2½   | 63.5       | 2.89 | 73.3    | 100 | 0.69        | 10  | 254       | 29  | 737    | 1.06    | 1.58   |
| 3    | 76.2       | 3.35 | 85.1    | 50  | 0.34        | 12  | 305       | 29  | 737    | 1.20    | 1.79   |
| 4    | 101.6      | 4.41 | 111.9   | 50  | 0.34        | 16  | 406       | 29  | 737    | 1.71    | 2.55   |



### M&P MINE **CONDUIT**





#### **Product Specifications**

APPLICATION: A fabric-reinforced conduit hose for use as an electrical cable cover in underground mine service.

CONSTRUCTION

TUBE: Black flame-resistant synthetic

COVER: Black flame-resistant synthetic (smooth cover)

REINFORCEMENT: Spiral synthetic yarn

TEMPERATURE: -20°F to 200°F (-29°C to 93°C)

PACKAGING: Stocked in 50' pieces per box

BRANDING: Example: 3/4" (19.1mm) Mine Conduit. Made in USA. Goodyear®. US MSHA #2G-14-7X

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 569-045

Cement & Concrete **MINING** 

Abrasives

**Bulk Transfer** 

AIR &

Heavy Duty

**CHEMICAL** TRANSFER

**CLEANING** 

Washdown

MARINE

MATERIAL HANDLING

FOOD Transfer

**EQUIPMENT** 

**MULTIPURPOSE** 

**PETROLEUM** Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER

Suction &

WELDING

COUPLING **SYSTEMS** 

**APPENDIX** 

#### **M&P MINE CONDUIT**

| ID             |      | NOM  | 1. OD | WEIGHT  |        |  |
|----------------|------|------|-------|---------|--------|--|
| in.            | mm.  | in.  | mm.   | lb./ft. | kg./m. |  |
| 1/2            | 12.7 | 0.94 | 23.9  | 0.29    | 0.43   |  |
| 5/8            | 15.9 | 1.06 | 26.9  | 0.35    | 0.52   |  |
| 3/4            | 19.1 | 1.19 | 30.2  | 0.39    | 0.58   |  |
| 7/8            | 22.2 | 1.32 | 33.5  | 0.45    | 0.67   |  |
| 1              | 25.4 | 1.43 | 36.3  | 0.46    | 0.68   |  |
| 11//8          | 28.6 | 1.56 | 39.6  | 0.60    | 0.89   |  |
| $1\frac{1}{4}$ | 31.8 | 1.69 | 42.9  | 0.62    | 0.92   |  |
| 13/8           | 34.9 | 1.82 | 46.2  | 0.71    | 1.06   |  |
| 1½             | 38.1 | 1.95 | 49.5  | 0.75    | 1.12   |  |



### MINING

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

#### **MINING**

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLICORD® AMMONIUM NITRATE PELLET



#### **Product Specifications**

**APPLICATION:** For pellet transfer in blasting hole loading.

CONSTRUCTION TUBE:

Black Nitrile synthetic rubber (static dissipating/static conductive)

**COVER:** Black Nitrile synthetic rubber (static dissipating/static conductive)

**REINFORCEMENT:** Spiral-plied synthetic fabric

TEMPERATURE: -25°F to 200°F (-32°C to 93°C)

PACKAGING: 100' lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Goodyear® Ammonium Nitrate Pellet 100 psi

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-232

### PLICORD® AMMONIUM NITRATE PELLET

| ID  |      | NOM. OD |      | MAX. WP |      | WEIGHT  |        |
|-----|------|---------|------|---------|------|---------|--------|
| in. | mm.  | in.     | mm.  | psi     | Мра  | lb./ft. | kg./m. |
| 3/4 | 19.1 | 1.17    | 29.7 | 100     | 0.69 | 0.33    | 0.49   |
| 1   | 25.4 | 1.42    | 36.1 | 100     | 0.69 | 0.34    | 0.51   |
| 1½  | 38.1 | 1.92    | 48.8 | 100     | 0.69 | 0.59    | 0.88   |
| 2   | 50.8 | 2.49    | 63.3 | 100     | 0.69 | 0.76    | 1.13   |
| 2½  | 63.5 | 2.94    | 74.7 | 100     | 0.69 | 0.90    | 1.34   |
| 3   | 76.2 | 3.42    | 86.9 | 100     | 0.69 | 1.10    | 1.64   |



## PLICORD® MINE CONDUIT



### **Product Specifications**

APPLICATION: A fabric-reinforced hose for use as an electrical cable cover in underground mines. Meets MSHA

standards for flame-resistant cover.

CONSTRUCTION

**TUBE:** Black Wingprene® synthetic rubber

**COVER:** Black Wingprene® synthetic rubber, flame-resistant (wrapped impression)

**REINFORCEMENT:** Spiral-plied synthetic fabric

**TEMPERATURE:** -40°F to 200°F (-40°C to 93°C)

PACKAGING: 50' lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Goodyear® Mine Conduit Hose, Flame-Resistant, USMSHA, #2G-14/15

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-039 (black cover) 549-035 (yellow cover)

MINING

AIR &

Heavy Duty

CHEMICAL TRANSFER

**CLEANING** 

Washdown

MARINE

MATERIAL HANDLING

Bulk Transfer

Cement & Concrete

FOOD Transfer

**EQUIPMENT** 

**MULTIPURPOSE** 

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

Discharge Suction & Discharge

Washdow

WELDING

COUPLING SYSTEMS

APPENDIX

#### PLICORD® MINE CONDUIT

| ID   |       | NOM  | I. OD | WEIGHT  |        |  |
|------|-------|------|-------|---------|--------|--|
| in.  | mm.   | in.  | mm.   | lb./ft. | kg./m. |  |
| 1/2  | 12.7  | 0.94 | 23.9  | 0.30    | 0.45   |  |
| 5/8  | 15.9  | 1.06 | 26.9  | 0.35    | 0.52   |  |
| 3/4  | 19.1  | 1.18 | 30.0  | 0.40    | 0.60   |  |
| 7/8  | 22.2  | 1.30 | 33.0  | 0.45    | 0.67   |  |
| 1    | 25.4  | 1.43 | 36.3  | 0.50    | 0.74   |  |
| 11/8 | 28.6  | 1.58 | 40.1  | 0.56    | 0.83   |  |
| 11/4 | 31.8  | 1.69 | 42.9  | 0.61    | 0.91   |  |
| 13/8 | 34.9  | 1.81 | 46.0  | 0.66    | 0.98   |  |
| 1½   | 38.1  | 1.93 | 49.0  | 0.71    | 1.06   |  |
| 1¾   | 44.5  | 2.21 | 56.1  | 0.82    | 1.22   |  |
| 2    | 50.8  | 2.42 | 61.5  | 0.87    | 1.29   |  |
| 21/4 | 57.2  | 2.67 | 67.9  | 0.97    | 1.43   |  |
| 23/8 | 60.3  | 2.80 | 71.0  | 1.02    | 1.52   |  |
| 21/2 | 63.5  | 2.92 | 74.2  | 1.06    | 1.58   |  |
| 3    | 76.2  | 3.41 | 86.5  | 1.26    | 1.86   |  |
| 4    | 101.6 | 4.44 | 112.7 | 1.66    | 2.45   |  |



### MINING

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

#### **MINING**

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

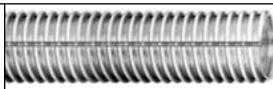
WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## SPIRAFLEX® CABLE GUARD



### **Product Specifications**

**APPLICATION:** For use as a protective cover for supply lines. Flame-resistant MSHA approved.

CONSTRUCTION

TUBE: Clear Pliovic® corrugated for flexibility, MSHA

**HELIX:** Clear Pliovic corrugated for flexibility, MSHA

**TEMPERATURE:** 0°F to 150°F (-18°C to 66°C)

PACKAGING: Continuous one piece, coiled and polywrapped, available in 50' or 100' lengths, available preslit

longitudinally for easy installation.

**BRANDING:** Example: Cable Guard, USMSHA IC-11/12. Made in USA. Goodyear®

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 586-438

#### SPIRAFLEX® CABLE GUARD

| ID  |       | NOM. OD |       | BEND RADIUS |     | WEIGHT  |        |
|-----|-------|---------|-------|-------------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi         | Мра | lb./ft. | kg./m. |
| 2   | 50.8  | 2.28    | 57.9  | 3           | 76  | 0.34    | 0.51   |
| 3   | 76.2  | 3.37    | 85.6  | 6           | 152 | 0.52    | 0.77   |
| 4   | 101.6 | 4.44    | 112.8 | 9           | 229 | 0.75    | 1.12   |



### **SPIRAFLEX® ROCK DUST**



### AIR & **MULTIPURPOSE** Heavy Duty

**CHEMICAL** TRANSFER

**CLEANING EQUIPMENT** 

Washdown

MARINE

HANDLING Abrasives Bulk Transfer

FOOD Transfer

MATERIAL

Cement & Concrete

#### **MINING**

**PETROLEUM** Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

Suction &

WELDING

COUPLING

**APPENDIX** 

### **Product Specifications**

APPLICATION: Rock Dust hose is a lightweight, flexible alternative to the rubber hose for handling rock dusting

in underground coal mines.

CONSTRUCTION

Green Pliovic®, meets MSHA standards USMSHA TUBE:

COVER: Green Pliovic, meets MSHA standards USMSHA

REINFORCEMENT: Rigid white Pliovic PVC helix

TEMPERATURE: 0°F to 158°F (-18°C to 70°C)

PACKAGING: 100' lengths, coiled and polywrapped

**BRANDING:** Example: Rock Dust USMSHA 2G-1C-14C/17. Made in USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: Static wire available, contact Customer Service.

**ORDER CODES:** 586-426 (corrugated cover)

586-427 (smooth cover with static wire, not available in 4")

#### SPIRAFLEX® ROCK DUST

| ı   | D     | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|-----|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1½  | 38.1  | 1.75    | 44.5  | 44      | 0.30 | 4           | 97  | 29        | 737 | 0.28    | 0.42   |
| 2   | 50.8  | 2.35    | 59.7  | 30      | 0.21 | 6           | 140 | 29        | 737 | 0.61    | 0.91   |
| 2½  | 63.5  | 2.87    | 72.9  | 30      | 0.21 | 7           | 178 | 29        | 737 | 0.61    | 0.91   |
| 3   | 76.2  | 3.40    | 86.4  | 30      | 0.21 | 8           | 203 | 29        | 737 | 0.77    | 1.15   |
| 4   | 101.6 | 4.45    | 113.0 | 27      | 0.19 | 14          | 356 | 15        | 381 | 0.95    | 1.41   |



### MINING

AIR & **MULTIPURPOSE** Heavy Duty

**CHEMICAL TRANSFER** 

**EQUIPMENT** 

**FOOD** Transfer Washdown

MARINE

MATERIAL HANDLING Cement & Concrete

#### **MINING**

**PETROLEUM** Aircraft Fueling Dispensing Dock

SPRAY

STEAM

**VACUUM** 

**VEYANCE** 

WATER Suction &

WELDING

COUPLING

**APPENDIX** 

### TUNNELCOTE™ **ROCK DUST**





#### **Product Specifications**

APPLICATION: For handling rock dust operations in underground mines. Offered in corrugated or smooth cover.

Optional reflective tape available in either style.

CONSTRUCTION TUBE:

Black Tufsyn® synthetic rubber (static dissipating / static conductive)

COVER: SMOOTH (Flexwing®): Black Wingprene® synthetic rubber, flame resistant (MSHA)

(wrapped impression)

CORRUGATED (Flextra®): Black Wingprene® synthetic rubber, flame resistant (MSHA)

(wrapped impression)

REINFORCEMENT: Spiral-plied synthetic fabric with dual wire helix

TEMPERATURE: -25°F to 200°F (-32°C to 93°C)

PACKAGING: 50' length, coiled & polywrapped

BRANDING (SPIRAL): Example: Goodyear® TunnelCote™ rock dust flame resistant msha IC-11/14 (embossed)

COUPLINGS: Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

Soft-cuffed ends standard. Plain ends available upon request.

NON-STOCK/SIZES: 400' minimum order, contact customer service

**ORDER CODES:** Smooth Cover Flexwing®: 546-469 546-470 (with 10mm wide spiral reflective tape added)

Corrugated Cover Flextra®: 546-467

546-468 (with 10mm wide spiral reflective tape added)

#### TUNNELCOTE™ ROCK DUST FLEXWING® SMOOTH

| ID   |      | NOM. OD |      | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|------|------|---------|------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in.  | mm.  | in.     | mm.  | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 11/4 | 32.0 | 1.62    | 41.1 | 100     | 0.69 | 5           | 127 | 29        | 737 | 0.54    | 0.80   |
| 1½   | 38.0 | 1.85    | 47.1 | 100     | 0.69 | 6           | 152 | 29        | 737 | 0.63    | 0.94   |
| 2    | 51.2 | 2.40    | 60.9 | 100     | 0.69 | 8           | 203 | 29        | 737 | 0.88    | 1.31   |
| 2½   | 63.7 | 2.92    | 74.3 | 100     | 0.69 | 10          | 254 | 29        | 737 | 1.21    | 1.80   |
| 3    | 76.1 | 3.42    | 86.8 | 100     | 0.69 | 12          | 305 | 29        | 737 | 1.44    | 2.14   |

#### TUNNELCOTE™ ROCK DUST FLEXTRA® CORRUGATED

|      | ID   |      | NOM. OD |     | MAX. WP |      | BEND RADIUS |     | JM HG | WEIGHT  |        |
|------|------|------|---------|-----|---------|------|-------------|-----|-------|---------|--------|
| in.  | mm.  | in.  | mm.     | psi | Мра     | in.  | mm.         | in. | mm.   | lb./ft. | kg./m. |
| 11/4 | 32.0 | 1.57 | 39.9    | 100 | 0.69    | 21/2 | 64          | 29  | 737   | 0.46    | 0.68   |
| 11/2 | 38.0 | 1.80 | 45.9    | 100 | 0.69    | 3    | 76          | 29  | 737   | 0.54    | 0.80   |
| 2    | 51.2 | 2.35 | 59.7    | 100 | 0.69    | 4    | 102         | 29  | 737   | 0.76    | 1.13   |
| 21/2 | 63.7 | 2.86 | 72.7    | 100 | 0.69    | 6    | 152         | 29  | 737   | 1.01    | 1.50   |
| 3    | 76.1 | 3.35 | 85.2    | 100 | 0.69    | 8    | 203         | 29  | 737   | 1.21    | 1.80   |



## AIRCRAFT FUELING



|                            | Page | API 1529 | NFPA | EN 1361 | Static Dissipating<br>Cover |
|----------------------------|------|----------|------|---------|-----------------------------|
| Advantage™                 | 148  | Yes      | Yes  |         | Yes                         |
| Deadman Aircraft Refueling | 149  |          |      |         |                             |
| Jet Ranger™                | 147  | Yes      | Yes  | Yes     | Yes                         |
| Refueling Sensing          | 150  |          |      |         |                             |
| Wingcraft™                 | 146  | Yes      | Yes  |         | Yes                         |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

#### PETROLEUM

Aircraft Fueling
Dispensing
Dock
Transfer

SPRAY

STEAM

VACUUM

VEYANCE

WATER

Discharge Suction & Discharge Washdown

WELDING

COUPLING SYSTEMS



AIR & **MULTIPURPOSE** Heavy Duty

**CHEMICAL** 

**EQUIPMENT** 

FOOD Washdown

MARINE

MATERIAL HANDLING Cement & Concrete

MINING

#### PETROLEUM

Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER Suction &

WELDING

COUPLING

**APPENDIX** 

### WINGCRAFT™



#### **Product Specifications**

APPLICATION: For fueling or defueling\* commercial and private aircraft. It handles jet fuel and the higher

aromatic aviation gasolines. Its high working pressure permits use in fuel cart hydrant service.

Hose meets API Bulletin 1529-6th edition, 2005 and N.F.P.A. Bulletin #407 (2007 revision).

CONSTRUCTION

Black Nitrile synthetic rubber TUBE:

COVER: Black Wingprene® (ORS) static dissipating/static conductive synthetic rubber

REINFORCEMENT: Spiral-plied synthetic fabric

TEMPERATURE: -35°F to 200°F (-37°C to 93°C)

PACKAGING: Cut lengths, coiled and polywrapped

Example: Goodyear® Wingcraft™ Aircraft Fueling NFPA407, API/IP 1529/2005 Type C, Grade 2, 2", **BRANDING:** 

2000 Kpa (300 psi) MAX WP

Contact fitting manufacturer for proper fitting recommendation and coupling procedures. **COUPLINGS:** 

NON-STOCK/SIZES: Custom lengths and fitting configurations available.

**ORDER CODES:** (1" to 3") 543-738 (4") 541-738

#### WINGCRAFT™

| 1    | D     | NOM  | I. OD | MAX | . WP | WEIGHT  |        |  |
|------|-------|------|-------|-----|------|---------|--------|--|
| in.  | mm.   | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 1    | 25.4  | 1.58 | 40.1  | 300 | 2.07 | 0.63    | 0.94   |  |
| 11/4 | 31.8  | 1.89 | 48.0  | 300 | 2.07 | 0.84    | 1.25   |  |
| 1½   | 38.1  | 2.13 | 54.1  | 300 | 2.07 | 0.96    | 1.43   |  |
| 2    | 50.8  | 2.72 | 69.1  | 300 | 2.07 | 1.43    | 2.13   |  |
| 21/2 | 63.5  | 3.22 | 81.8  | 300 | 2.07 | 1.72    | 2.56   |  |
| 3    | 76.2  | 3.70 | 94.0  | 300 | 2.07 | 2.02    | 3.01   |  |
| 4    | 101.6 | 4.80 | 121.9 | 300 | 2.07 | 2.89    | 4.30   |  |

Note: Bulk hose and factory's assemblies are hydrostatic tested to 600 psi and certified.



<sup>\*</sup>Gravity defueling only.

### JET RANGER™



**Product Specifications** 

**APPLICATION:** Used in the fueling and defueling\* of commercial and private aircraft. Resistant to jet fuel and

higher aromatic aviation gasolines. Also for use on hydrant service. Meets both API 1529-6th

edition, 2005 and European Standard BS EN 1361; 2004.

CONSTRUCTION

**TUBE:** Black Nitrile synthetic rubber

**COVER:** Black Wingprene® (ORS) static dissipating/static conductive synthetic rubber (wrapped finish)

**REINFORCEMENT:** Spiral-plied (4) synthetic fabric and one nylon breaker

**TEMPERATURE:** -35°F to 200°F (-37°C to 93°C)

PACKAGING: Cut lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Goodyear® Jet Ranger™ EN 1361:2004/C/OMEGA, NFPA 407 API/IP 1529/2005 Type C,

Grade 2, 2 1/2", 2000 Kpa/20 bars/300 psi MAX WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** (1" to 3") 543-742 (4") 541-742

JET RANGER™

| I      | ID    |      | I. OD | MAX | . WP | WEIGHT  |        |  |
|--------|-------|------|-------|-----|------|---------|--------|--|
| in.    | mm.   | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 1½     | 38.1  | 2.06 | 52.3  | 300 | 2.07 | 0.86    | 1.28   |  |
| 131/32 | 50.0  | 2.57 | 65.3  | 300 | 2.07 | 1.14    | 1.70   |  |
| 21/2   | 63.5  | 3.16 | 80.3  | 300 | 2.07 | 1.53    | 2.28   |  |
| 3      | 76.2  | 3.64 | 92.5  | 300 | 2.07 | 1.79    | 2.66   |  |
| 4      | 101.6 | 5.00 | 127.0 | 300 | 2.07 | 3.70    | 5.51   |  |

Note: Bulk hose is factory hydrostatic tested to 600 psi.

\*Gravity defueling only.

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

#### PETROLEUM Aircraft Fueling

Aircraft Fueling Dispensing Dock <u>Transfer</u>

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

scharge

Suction & Discharge

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

#### **PETROLEUM**

Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### ADVANTAGE™



#### **Product Specifications**

APPLICATION: Advantage™ Aircraft Fueling hose is for over- and under-the-wing fueling of commercial and

private aircraft. It handles jet fuel and av-gas up to 50% aromatic content.

CONSTRUCTION
TUBE: Black Nitrile synthetic rubber

**COVER:** Black Wingprene® (ORS) static dissipating/static conductive synthetic rubber

(wrapped impression)

**REINFORCEMENT:** Spiral-plied (2) synthetic fabric and one breaker

**TEMPERATURE**: -35°F to 200°F (-37°C to 93°C)

**PACKAGING:** Cut lengths, coiled and polywrapped.

BRANDING: Example: Goodyear® Advantage™ Aircraft Fueling Hose NFPA407, API/IP 1529/2005 Type C, Grade

1, 1¼", 1000 Kpa (150 psi) MAX WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedures.

**NON-STOCK/SIZES:** Custom lengths and female fitting configurations available.

**ORDER CODES:** 543-429

#### ADVANTAGE™

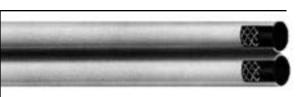
| ID   |      | NOM  | I. OD | MAX | . WP | WEIGHT  |        |  |
|------|------|------|-------|-----|------|---------|--------|--|
| in.  | mm.  | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 1    | 25.4 | 1.55 | 39.4  | 150 | 1.03 | 0.60    | 0.89   |  |
| 11/4 | 31.8 | 1.81 | 46.0  | 150 | 1.03 | 0.72    | 1.07   |  |
| 1½   | 38.1 | 2.11 | 53.6  | 150 | 1.03 | 0.96    | 1.43   |  |

Hose meets API Bulletin 1529-6th edition, 2005, Grade 1, Type C and N.F.P.A. Bulletin #407 (2001 revision).

Note: Bulk hose and factory's assemblies are hydrostatic tested to 300 psi and certified.



### DEADMAN AIRCRAFT REFUELING



**Product Specifications** 

**APPLICATION:** The double-line Deadman Refueling hose is for automatic shutoff at the operator end of aircraft

hydrant and truck refueling systems. Used with pneumatic closed circuit systems commonly referred to as single point pressure refueling. Deadman hose is connected to air-actuated shut-off valves, which are controlled by the refueler technician at all times during aircraft

refueling operations.

CONSTRUCTION

TUBE: Nitrile synthetic rubber, RMA Class A (High Oil Resistance)

**COVER:** Red/Green, Green/Yellow Chemivic<sup>™</sup> synthetic rubber, RMA Class A (High Oil Resistance)

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE:** -20°F to 140°F (-29°C to 60°C)

PACKAGING: 450-750', maximum 3 pieces, minimum 35'

**BRANDING (SPIRAL):** Permanent contrasting black ink on the Red Hose only. Example: 1/4" ID. Aircraft Fueling

Deadman. Made in USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 569-601 (Red/Green) 569-692 (Green/Yellow)

#### **DEADMAN AIRCRAFT REFUELING**

| ID  |     | NOM  | I. OD | MAX | . WP | WEIGHT  |        |  |
|-----|-----|------|-------|-----|------|---------|--------|--|
| in. | mm. | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 1/4 | 6.4 | 0.53 | 13.5  | 200 | 1.38 | 0.2     | 0.3    |  |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

#### PETROLEUM

Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

#### **PETROLEUM**

Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## REFUELING SENSING



#### **Product Specifications**

**APPLICATION:** The double-line Refueling Sensing hose is for use on pressurized aircraft hydrant fueling systems

common at the larger metropolitan airports. The Sensing hose operates in a system where air and fuel from the underground hydrants monitor the flow and pressure of fuel being pumped into the aircraft. The hose carries the deadman function (automatic safety shutdown) and pressure

control signals from the dispensing vehicle to the hydrant pit control valve.

CONSTRUCTION

TUBE: Nitrile synthetic rubber, RMA Class A (High Oil Resistance)

**COVER:** Orange/Black high-quality Hysunite<sup>™</sup> synthetic rubber

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE:** -20°F to 140°F (-29°C to 60°C)

PACKAGING: 450'-750' reels, maximum 3 pieces, minimum 35'

**BRANDING:** Permanent contrasting white ink on black hose only

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 569-604

#### **REFUELING SENSING**

| ID  |     | NOM. OD |      | MAX | . WP | WEIGHT  |        |  |
|-----|-----|---------|------|-----|------|---------|--------|--|
| in. | mm. | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |  |
| 3/8 | 9.5 | 0.66    | 16.8 | 200 | 1.38 | 0.28    | 0.42   |  |



### **DISPENSING**



|   | Page | CUL and/or<br>UL Approved | Gasoline | Diesel | Biodiesel* | Ethanol** | Wire<br>Reinforcement | Textile<br>Reinforcement |
|---|------|---------------------------|----------|--------|------------|-----------|-----------------------|--------------------------|
| Aggie Gas <sup>™</sup>                      | 158  |                           | Yes      | Yes    |            | Yes       |                       | Yes                      |
| Arctic Softwall                             | 159  | Yes                       | Yes      | Yes    | Yes        | Yes       |                       | Yes                      |
| BC Gasoline                                 | 160  | Yes                       | Yes      | Yes    | Yes        | Yes       |                       | Yes                      |
| BC Marina                                   | 161  | Yes                       | Yes      | Yes    | Yes        | Yes       |                       | Yes                      |
| DEF Dispensing Hose                         | 163  |                           |          |        |            |           |                       | Yes                      |
| Flexsteel® Futura™ Ethan-ALL™               | 162  | Yes                       |          |        |            | Yes       | Yes                   | Yes                      |
| Flexsteel® Futura™                          | 152  |                           | Yes      | Yes    | Yes        | Yes       | Yes                   |                          |
| Flexsteel® Hardwall                         | 153  | Yes                       | Yes      | Yes    | Yes        | Yes       | Yes                   |                          |
| Flexsteel® Futura <sup>™</sup> Vapor Assist | 154  | Yes                       | Yes      |        |            |           | Yes                   |                          |
| Maxxim <sup>™</sup> Premier                 | 155  | Yes                       | Yes      |        |            |           | Yes                   |                          |
| Maxxim <sup>™</sup> Premier Plus            | 156  | Yes                       | Yes      |        |            |           | Yes                   |                          |
| Pacer™                                      | 157  | Yes                       | Yes      | Yes    | Yes        | Yes       |                       | Yes                      |

<sup>\*</sup> Biodiesel blends up to B20

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



<sup>\*\*</sup> Ethanol up to E85

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

#### PETROLEUM

Aircraft Fueling Dispensing

Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### FLEXSTEEL® FUTURA™



### **Product Specifications**



**APPLICATION:** Flexsteel® Futura™ with new Futurin™ cover resists cracking and fading, designed to dispense

a wide range of fuels with extreme durability. The wire braid construction provides excellent kink

resistance, low computer creep, and long service life. UL 330 and CUL approved.

CONSTRUCTION

TUBE: Nitrile synthetic rubber (ORS)

**COVER:** Futurin<sup>™</sup> synthetic rubber (ORS)

REINFORCEMENT: Wire braid

**TEMPERATURE**: -40°F to 140°F (-40°C to 60°C)

**PACKAGING:** 5/8" and 3/4" Reels or coupled lengths, 10 pieces per box

" Reels or coupled lengths, 5 pieces per box

BRANDING: Example: Goodyear® 559N, Made in USA. 3/4" (19mm) UL, CUL. Listed Flexsteel® Futura™

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

ORDER CODES: 532-327

#### FLEXSTEEL® FUTURA™

| II  | D    | NOM  | 1. OD | WEIGHT  |        |  |
|-----|------|------|-------|---------|--------|--|
| in. | mm.  | in.  | mm.   | lb./ft. | kg./m. |  |
| 5/8 | 15.9 | 1.00 | 25.4  | 0.40    | 0.60   |  |
| 3/4 | 19.1 | 1.13 | 28.7  | 0.45    | 0.67   |  |
| 1   | 25.4 | 1.38 | 35.1  | 0.61    | 0.91   |  |



### FLEXSTEEL® HARDWALL







**Product Specifications** 

**APPLICATION:** Flexsteel® Hardwall is for dispensing pump applications that require a hardwall construction for

full flow and no internal spring guards. The wire-braid construction provides excellent kink

resistance, low computer creep and long service life. UL 330 and CUL approved.

CONSTRUCTION

**TUBE:** Nitrile synthetic rubber (ORS)

**COVER:** Green, red, blue or yellow Chemivic<sup>™</sup> synthetic rubber (ORS)

REINFORCEMENT: Wire braid

**TEMPERATURE:** -40°F to 140°F (-40°C to 60°C)

**PACKAGING:** 5/8" and 3/4" Reels or coupled lengths, 10 pieces per box

1" Reels or coupled lengths, 5 pieces per box

BRANDING (SPIRAL): Example: Goodyear® 559N, Made in USA. 3/4" (19 mm). UL, CUL. Listed Flexsteel® Hardwall

Gasoline Hose

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 532-331 (green) 532-332 (red)

532-333 (blue) 532-335 (yellow)

#### FLEXSTEEL® HARDWALL

| I   | D    | NOM  | 1. OD | WEIGHT  |        |  |
|-----|------|------|-------|---------|--------|--|
| in. | mm.  | in.  | mm.   | lb./ft. | kg./m. |  |
| 5/8 | 15.9 | 1.00 | 25.4  | 0.38    | 0.57   |  |
| 3/4 | 19.1 | 1.13 | 28.7  | 0.43    | 0.64   |  |
| 1   | 25.4 | 1.38 | 35.1  | 0.58    | 0.86   |  |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

Transfer

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &

Washdowr

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

**PETROLEUM** 

Aircraft Fueling

Dispensing Dock

Dоск Transfer

SPRAY

**STEAM** 

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### FLEXSTEEL® FUTURA™ VAPOR ASSIST



### (ŲL)

#### **Product Specifications**

APPLICATION: For Stage II Vacuum Assist Systems where a pump in the dispenser pulls the gasoline vapors

away from the vehicle fill pipe during fueling. The wire-braid construction for the fuel hose provides excellent kink resistance, low computer creep and long service life. Flexsteel® Futura™

Vapor Assist is UL 330 approved.

CONSTRUCTION

TUBE: Nitrile synthetic rubber (ORS)

**COVER:** Futurin<sup>™</sup> synthetic rubber (ORS)

REINFORCEMENT: Braided (1) steel wire

**TEMPERATURE:** -40°F to 140°F (-40°C to 60°C)

**PACKAGING:** Coupled lengths only, 6 pieces per box

**BRANDING:** Example: 3/4" Goodyear.® Made in USA, UL Listed Flexsteel® Futura™ Vapor Assist

Example: 7/8" Goodyear.® Made in USA. UL Listed Flexsteel® Futura™ Vapor Assist

**COUPLINGS:** Available only as factory coupled assembly.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 532-362

#### FLEXSTEEL® FUTURA™ VAPOR ASSIST

| ID  |      | NOM  | 1. OD | WEIGHT  |        |  |
|-----|------|------|-------|---------|--------|--|
| in. | mm.  | in.  | mm.   | lb./ft. | kg./m. |  |
| 3/4 | 19.1 | 1.13 | 28.7  | 0.45    | 0.67   |  |
| 7/8 | 22.2 | 1.25 | 31.8  | 0.49    | 0.73   |  |



### MAXXIM<sup>™</sup> PREMIER





### **Product Specifications**

APPLICATION:

For Stage II Balance Systems where the gasoline vapors from the fill pipe are pushed back through the outer hose. The outer vapor hose has a textile-reinforced thermoplastic layer over a wire helix. The textile-reinforced thermoplastic cover has maximum puncture resistance, stable dimensions and long service life. The wire braid construction for the fuel hose provides excellent kink resistance and low computer creep. Maxxim™ Premier hose is C.A.R.B. and UL 330 approved.

CONSTRUCTION

TUBE: Nitrile synthetic rubber (ORS)

**COVER:** Chemivic<sup>™</sup> synthetic rubber (ORS), thermoplastic outer with textile reinforcement and wire helix

**REINFORCEMENT:** Braided (1) steel wire

**TEMPERATURE:** -40°F to 140°F (-40°C to 60°C)

PACKAGING: Coupled lengths only, 6 pieces per box

**BRANDING:** Not branded

**COUPLINGS:** Available only as factory coupled assembly.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 532-365-440

#### MAXXIM™ PREMIER

| ID ID-INNER HOSE |       | NOM. OD-I | NNER HOSE | WEIGHT-INNER HOSE |      |         |        |
|------------------|-------|-----------|-----------|-------------------|------|---------|--------|
| in.              | mm.   | in.       | mm.       | psi               | Мра  | lb./ft. | kg./m. |
| 11/4             | 31.75 | 5/8       | 15.9      | 0.85              | 21.6 | 0.22    | 0.33   |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

# PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

#### **PETROLEUM**

Aircraft Fueling
Dispensing

Dock

Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

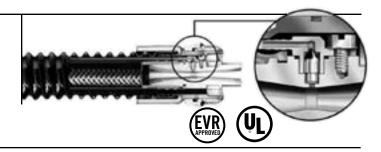
WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### MAXXIM<sup>™</sup> PREMIER PLUS



#### **Product Specifications**

**APPLICATION:** Maxxim™ Premier Plus incorporates a Venturi pump in the protected confines of the inner fuel

hose coupling to keep the vapor path open in the outer hose. As gasoline flows through the Venturi pump, gasoline accumulating in the bottom loop of the vapor hose is collected and

returned to the fuel hose. C.A.R.B., EVR and UL 330 approved.

CONSTRUCTION

TUBE: Nitrile synthetic rubber (ORS)

**COVER:** Chemivic<sup>™</sup> synthetic rubber (ORS), thermoplastic outer with textile reinforcement and wire helix.

**REINFORCEMENT:** Braided (1) steel wire

**TEMPERATURE:** -40°F to 140°F (-40°C to 60°C)

PACKAGING: Coupled lengths only, 6 pieces per box

**BRANDING:** Not branded

**COUPLINGS:** Available only as factory coupled assembly.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 532-365-441 532-365-641 (EVR)

#### MAXXIM™ PREMIER PLUS

| ID ID-INNER HOSE |       | NOM. OD-I | NNER HOSE | WEIGHT-INNER HOSE |      |         |        |
|------------------|-------|-----------|-----------|-------------------|------|---------|--------|
| in.              | mm.   | in.       | mm.       | psi               | Мра  | lb./ft. | kg./m. |
| 11/4             | 31.75 | 5/8       | 15.9      | 0.85              | 21.6 | 0.22    | 0.33   |



### PACER™





**Product Specifications** 

APPLICATION: For all types of gasoline dispensing applications where flexibility and a lightweight hose is

desired. Pacer<sup>™</sup> is designed with a spiral textile reinforcement. UL 330 and CUL approved.

CONSTRUCTION

TUBE: Nitrile synthetic rubber (ORS)

**COVER:** Chemivic<sup>™</sup> synthetic rubber (ORS)

**REINFORCEMENT:** Spiral synthetic yarn with static wire

**TEMPERATURE:** -40°F to 140°F (-40°C to 60°C)

PACKAGING: Reels or coupled lengths

**BRANDING:** Example: 3/4" Pacer™ Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

ORDER CODES: 595-015 (bulk)

595-017 (factory coupled assemblies)

#### PACER™

| ID  |      | NOM  | 1. OD | WEIGHT  |        |  |
|-----|------|------|-------|---------|--------|--|
| in. | mm.  | in.  | mm.   | lb./ft. | kg./m. |  |
| 5/8 | 15.9 | 0.98 | 24.9  | 0.28    | 0.42   |  |
| 3/4 | 19.1 | 1.15 | 29.2  | 0.37    | 0.55   |  |
| 1   | 25.4 | 1.50 | 38.1  | 0.60    | 0.89   |  |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

Transfer

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

#### **PETROLEUM**

Aircraft Fueling

Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### AGGIE GAS™



#### **Product Specifications**

**APPLICATION:** A multi-use type hose for dispensing gasoline, grease, kerosene, and petroleum oils from farm

and barrel type pumps. It is for agricultural, construction and industrial service where UL

approval is not required.

CONSTRUCTION

**TUBE:** Nitrile synthetic rubber (ORS)

**COVER:** Black or red Chemivic<sup>™</sup> synthetic rubber (ORS)

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE:** -30°F to 140°F (-34°C to 60°C)

PACKAGING: Reels or coupled lengths, 5 pieces per box

**BRANDING:** Example: Aggie Gas<sup>™</sup> 3/4" (19.1mm) Static Bonded Goodyear<sup>®</sup>

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

AGGIE GAS - NO STATIC WIRE

ORDER CODES: 595-001 (no static wire) (black) 595-002 (no static wire) (red)

| ID  |      | NOM  | I. OD | WEIGHT  |        |  |
|-----|------|------|-------|---------|--------|--|
| in. | mm.  | in.  | mm.   | lb./ft. | kg./m. |  |
| 3/4 | 19.1 | 1.11 | 28.2  | 0.27    | 0.40   |  |
| 1   | 25.4 | 1.40 | 35.6  | 0.52    | 0.77   |  |

ORDER CODES: 595-026 (with static wire - bulk) (black) **AGGIE GAS - WITH STATIC WIRE** 595-028 (with static wire - factory coupled assemblies) (black) ID **WEIGHT** NOM. OD in. mm. in. mm. lb./ft. kg./m. 3/4 19.1 1.11 28.2 0.27 0.40 1.40 25.4 35.6 0.52 0.77



### ARCTIC SOFTWALL







**Product Specifications** 

APPLICATION: A premium gas pump hose for use in extremely cold environments. Remains flexible where

temperatures of -65°F (-54°C) are encountered. UL 330 and CUL approved.

CONSTRUCTION

**TUBE:** Black, low-temp synthetic rubber

**COVER:** Black, low-temp synthetic rubber (wrapped finish)

**REINFORCEMENT:** Braided synthetic yarn with antistatic wire

**TEMPERATURE:** -65°F to 140°F (-54°C to 60°C)

PACKAGING: 500' reels +/- 50', minimum 50', maximum 3 pieces

BRANDING: Example: Goodyear® 559 N, Made in USA. 3/4" (19mm) UL, CUL Listed Arctic Softwall

Gasoline Hose

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 532-395

#### **ARCTIC SOFTWALL**

| ID  |      | NOM  | 1. OD | WEIGHT  |        |  |
|-----|------|------|-------|---------|--------|--|
| in. | mm.  | in.  | mm.   | lb./ft. | kg./m. |  |
| 5/8 | 15.9 | 1.00 | 25.4  | 0.29    | 0.43   |  |
| 3/4 | 19.1 | 1.13 | 28.7  | 0.32    | 0.48   |  |
| 1   | 25.4 | 1.50 | 38.1  | 0.57    | 0.85   |  |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling

Dispensing

Dock Transfer

SPRAY

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **BC GASOLINE**



#### **Product Specifications**





APPLICATION: For all types of dispensing pump applications where flexibility and lightweight are desired. BC is

available with one or two textile braids. UL 330 and CUL approved.

CONSTRUCTION

**TUBE:** Nitrile synthetic rubber (ORS)

**COVER:** Black Chemivic<sup>™</sup> synthetic rubber (ORS)

**REINFORCEMENT:** Braided synthetic yarn with static wire, available in one or two braid

**TEMPERATURE:** -40°F to 140°F (-40°C to 60°C)

PACKAGING: 5/8" and 3/4" Reels or coupled lengths, 10 pieces per box

1" Reels or coupled lengths, 5 pieces per box

BRANDING: Example: 1" (25.4mm) 2BD. CUL, UL Listed style BC Gasoline Goodyear® 559N. Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 532-012 (1 braid) 532-013 (2 braid)

#### BC GASOLINE (1 BRAID)

| ID  |      | NOM  | I. OD | WEIGHT  |        |  |
|-----|------|------|-------|---------|--------|--|
| in. | mm.  | in.  | mm.   | lb./ft. | kg./m. |  |
| 5/8 | 15.9 | 1.00 | 25.4  | 0.28    | 0.42   |  |
| 3/4 | 19.1 | 1.13 | 28.7  | 0.32    | 0.48   |  |

#### **BC GASOLINE** (2 BRAID)

| ID  |      | NOM  | 1. OD | WEIGHT  |        |  |
|-----|------|------|-------|---------|--------|--|
| in. | mm.  | in.  | mm.   | lb./ft. | kg./m. |  |
| 5/8 | 15.9 | 1.00 | 25.4  | 0.24    | 0.36   |  |
| 3/4 | 19.1 | 1.19 | 30.2  | 0.37    | 0.55   |  |
| 1   | 25.4 | 1.50 | 38.1  | 0.55    | 0.82   |  |



#### **BC MARINA**





**Product Specifications** 

For dispensing gasoline to pleasure craft and commercial boats at fresh and salt water marinas.

UL 330 and CUL approved.

CONSTRUCTION

APPLICATION:

TUBE: Nitrile synthetic rubber (ORS)

**COVER:** Green Chemivic<sup>™</sup> synthetic rubber (ORS) (nonmarking)

**REINFORCEMENT:** Braided (2) synthetic yarn with static wire

**TEMPERATURE**: -40°F to 140°F (-40°C to 60°C)

PACKAGING: Reels or coupled lengths

BRANDING: Example: 1" (25.4mm) 2BD. UL Listed Marina Gasoline Goodyear® 559N. Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 532-293

MULTIPURPOSE General Purpose Heavy Duty Push-on

> CHEMICAL TRANSFER

AIR &

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

| BC | M | Δ | RI | N | Λ |
|----|---|---|----|---|---|
|    |   |   |    |   |   |

| ID  |      | NOM  | 1. OD | WEIGHT  |        |  |
|-----|------|------|-------|---------|--------|--|
| in. | mm.  | in.  | mm.   | lb./ft. | kg./m. |  |
| 3/4 | 19.1 | 1.19 | 30.2  | 0.38    | 0.57   |  |
| 1   | 25.4 | 1.50 | 38.1  | 0.57    | 0.85   |  |

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &

Discharge Washdowr

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM

Aircraft Fueling
Dispensing

Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

FLEXSTEEL® FUTURA™ ETHAN-ALL™ DISPENSING HOSE ASSEMBLY



#### **Product Specifications**

**APPLICATION:** Flexsteel® Futura™ Ethan-ALL™ dispensing hose assembly is UL certified for use in ethanol dispensing

applications up to E85. This new assembly provides the quality Futurin™ cover with its superior ozone resistance along with a new premium layline. The tube construction meets the E25/E85 compatibility

test requirements of UL 87A.

The Flexsteel® Futura™ Ethan-ALL™ dispensing hose assembly uses the Veyance proprietary Fuel Grip™

fitting with a premium nickel coating to ensure corrosion is limited.

CONSTRUCTION

TUBE: N

Nitrile synthetic rubber

COVER: Futurin™ synthetic rubber

**REINFORCEMENT:** Wire braid

**TEMPERATURE:** -40°F to 140°F (-40°C to 60°C)

PACKAGING: Coupled assemblies only

**BRANDING:** Example: 3/4" (UL) Listed Goodyear® Flexsteel® Futura™ Ethan-ALL™ E85 559N. Made in USA

ORDER CODES: 532-337-124

#### FLEXSTEEL® FUTURA™ ETHAN-ALL™ DISPENSING HOSE

| - 1 | D    | OD   |      | MAX. WP |      | WEIGHT |      |
|-----|------|------|------|---------|------|--------|------|
| in. | mm.  | in.  | mm.  | psi     | Мра  | lbs/ft | kg/m |
| 3/4 | 19.1 | 1.13 | 28.7 | 50      | 0.34 | 0.46   | 0.69 |



## DEF DISPENSING HOSE





#### **Product Specifications**

**APPLICATION:** Diesel Exhaust Fluid (DEF: aqueous 32.5% nitrogen solution of high-purity urea in deionized water) is a key

component of selective catalytic reduction (SCR) systems, which help diesel vehicles meet stringent emission regulations effective January 1, 2010. DEF is a liquid reducing agent that reacts with engine exhaust in the presence of a catalyst to convert smog-forming nitrogen oxides (NOx) into harmless nitrogen and water vapor.

**Goodyear Engineered Products DEF Dispensing Hose** is specifically designed to convey the high-purity, aqueous urea solution DEF. Hose tube compound is specially formulated with low extraction EPDM and peroxide cured to provide superior extraction levels to significantly reduce contamination. Flexible softwall construction provides superior handling in standard dispensing and reeling applications. Static wire available

for installation in Class I, Division 1 areas.

CONSTRUCTION

TUBE: Specially formulated low-extraction EPDM, peroxide cured

**COVER:** Specially formulated EPDM

**REINFORCEMENT:** Polyester braid

**TEMPERATURE**: -40°F to 257°F (-40°C to 125°C)

**PACKAGING:** Bulk, coupled assemblies (NPT and BSPP fittings available)

**BRANDING:** Example: Goodyear® DEF Dispensing Hose 3/4" (19.1mm)

**ORDER CODES:** 532-027

#### **DEF DISPENSING HOSE**

| FEATURES  | BENEFITS   |
|---|--|
| Specially formulated low extraction EPDM compound for tube peroxide cured | Provides superior extraction levels to significantly reduce contamination that can clog an SCR system and stop a truck |
| Enhanced manufacturing practices  | Significantly reduce contamination that can clog an SCR system and stop a truck  |
| Premium braided construction  | Reduced volumetric expansion to meet Weights and Measures system criteria  |
| Static wire   | Requirement for installations in Class I, Division 1 areas as outlined in NFPA 70                                      |
| Meets ISO 22241 standard  | Ensures desirable characteristics of AUS 32 (DEF) are met, such as quality, safety, reliability and contamination      |

#### **DEF DISPENSING HOSE**

| I   | D    | NON  | Л. OD | WEIG   | HT   | WP  |      |  |
|-----|------|------|-------|--------|------|-----|------|--|
| in. | mm.  | in.  | mm.   | lbs/ft | kg/m | psi | Мра  |  |
| 3/4 | 19.1 | 1.13 | 28.8  | .30    | .457 | 300 | 2.07 |  |



AIR & MULTIPURPOSE General Purpose Heavy Duty

> CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Nashdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

## PETROLEUM Aircraft Fueling

Dispensing Dock T<u>ransfe</u>r

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

Discharge Suction &

Discharge Washdown

WELDING

COUPLING SYSTEMS

AIR & **MULTIPURPOSE** General Purpose Heavy Duty Push-on

CHEMICAL **TRANSFER** 

**CLEANING EQUIPMENT** 

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER Suction & Washdown

WELDING

COUPLING **SYSTEMS** 

**APPENDIX** 

### DOCK



|                               | Page | Nitrile<br>Tube | Flosyn<br>Tube | Max W.P. | Corrugated | Temp<br>Range  | Built-in<br>Nipple | Swage<br>Nipple* |
|-------------------------------|------|-----------------|----------------|----------|------------|----------------|--------------------|------------------|
| Flexdock® 225                 | 165  | Yes             | Yes            | 225      | Yes        | -25°F to 200°F | Yes                | Yes              |
| Flexdock® 300                 | 166  | Yes             | Yes            | 300      | Yes        | -25°F to 200°F | Yes                | Yes              |
| Hot Tar & Asphalt Rough Bore  | 172  | Yes             |                | 200      |            | -25°F to 350°F | Yes                |                  |
| Hot Tar & Asphalt Smooth Bore | 172  | Yes             |                | 200      |            | -25°F to 350°F | Yes                |                  |
| Smooth Bore Dock 200          | 167  | Yes             | Yes            | 200      |            | -25°F to 200°F | Yes                | Yes              |
| Smooth Bore Dock 300          | 168  | Yes             | Yes            | 300      |            | -25°F to 200°F | Yes                | Yes              |
| Tanker Barge Discharge        | 169  | Yes             | Yes            | 200      |            | -25°F to 220°F | Yes                | Yes              |
| Thor™ Dock                    | 171  | Yes             |                | 250      |            | -25°F to 180°F | Yes                |                  |
| Vapor Recovery Dock           | 170  | Yes             | Yes            | 25       | Yes        | -25°F to 200°F | Yes                | Yes              |

\*Up to 10" ID



### FLEXDOCK® 225



#### **Product Specifications**

**APPLICATION:** Built with a corrugated cover to provide flexibility in petroleum transfer service. A variety of tube

compounds are available to tailor the chemical and hydrocarbon resistance of the hose to the

type of material handled.

CONSTRUCTION

**TUBE:** Nitrile synthetic rubber for up to 50% aromatics. Also available with a Flosyn® tube for up to

100% aromatics.

**COVER:** Black Wingprene® synthetic cover, corrugated, wrapped finish

**REINFORCEMENT:** Spiral-plied heavy-duty synthetic fabric with double wire helix

**TEMPERATURE:** -25°F to 200°F (-32°C to 93°C)

**PACKAGING:** Chloroplast heavy-duty packaging

**BRANDING (SPIRAL):** Example: Goodyear® Flexdock® 225 psi WP Nitrile Oil Service

**COUPLINGS:** Coupled with standard built-in steel nipple/150#RFSO flanges. Available in other bolt hole

patterns, materials and floating flanges on request. Swage nipples are offered up to 10".

Hose assembly is electrically continuous unless otherwise specified by customer.

 $\textbf{NON-STOCK/SIZES:} \qquad \textbf{Custom lengths available, contact customer service.}$ 

**ORDER CODES:** 541-532 (Nitrile tube) 541-534 (Flosyn® tube)

FLEXDOCK® 225

| ı   | D     | NON   | 1. OD | MAX | . WP | BEND | RADIUS | VACUI | JM HG | WE      | IGHT   |
|-----|-------|-------|-------|-----|------|------|--------|-------|-------|---------|--------|
| in. | mm.   | in.   | mm.   | psi | Мра  | in.  | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 3   | 76.2  | 3.89  | 98.8  | 225 | 1.55 | 11   | 279    | 29    | 737   | 3.28    | 4.88   |
| 4   | 101.6 | 5.29  | 134.4 | 225 | 1.55 | 15   | 381    | 29    | 737   | 6.30    | 9.38   |
| 6   | 152.4 | 7.34  | 186.4 | 225 | 1.55 | 22   | 559    | 29    | 737   | 9.50    | 14.14  |
| 8   | 203.2 | 9.43  | 239.5 | 225 | 1.55 | 30   | 762    | 29    | 737   | 13.81   | 20.55  |
| 10  | 254.0 | 11.63 | 295.4 | 225 | 1.55 | 40   | 1016   | 29    | 737   | 20.49   | 30.49  |
| 12  | 304.8 | 13.72 | 348.5 | 225 | 1.55 | 60   | 1524   | 29    | 737   | 25.13   | 37.40  |

Note: Factory coupled hose manufactured according to the code of Federal Regulations standard 33 CFR 154.500 and 33 CFR 156.170.

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

SPRAY

STEAM

**VACUUM** 

**VEYANCE** 

Discharge Suction &

Discharge Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

**PETROLEUM** 

Aircraft Fueling Dispensing

Dock

Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

APPENDIX

### FLEXDOCK® 300



#### **Product Specifications**

**APPLICATION:** Built with a corrugated cover to provide flexibility in petroleum transfer service. A variety of tube

compounds are available to tailor the chemical and hydrocarbon resistance of the hose to the

type of material handled.

CONSTRUCTION

TUBE: Nitrile synthetic rubber for up to 50% aromatics. Also available with a Flosyn® tube for up to

100% aromatics.

**COVER:** Black Wingprene® synthetic cover, corrugated, wrapped finish

**REINFORCEMENT:** Heavy-duty synthetic fabric plies with double wire helix

**TEMPERATURE:** -25°F to 200°F (-32°C to 93°C)

PACKAGING: Chloroplast heavy-duty packaging

**BRANDING (SPIRAL):** Example: Goodyear® Flexdock® 300 psi WP Nitrile Oil Service

**COUPLINGS:** Coupled with standard built-in steel nipple/150#RFSO flanges. Available in other bolt hole

patterns, materials and floating flanges on request. Swage nipples are offered up to 10".

Hose assembly is electrically continuous unless otherwise specified by customer.

**NON-STOCK/SIZES:** Custom lengths available, contact customer service.

**ORDER CODES:** 541-533 (Nitrile Tube) 541-535 (Flosyn® tube)

#### FLEXDOCK® 300

| ı   | D     | NOM   | 1. OD | MAX | . WP | BEND | RADIUS | VACUI | JM HG | WE      | IGHT   |
|-----|-------|-------|-------|-----|------|------|--------|-------|-------|---------|--------|
| in. | mm.   | in.   | mm.   | psi | Мра  | in.  | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 3   | 76.2  | 4.06  | 103.7 | 300 | 2.07 | 14   | 356    | 29    | 737   | 3.76    | 5.60   |
| 4   | 101.6 | 5.29  | 134.4 | 300 | 2.07 | 19   | 483    | 29    | 737   | 6.30    | 9.38   |
| 6   | 152.4 | 7.35  | 186.7 | 300 | 2.07 | 28   | 711    | 29    | 737   | 9.64    | 14.35  |
| 8   | 203.2 | 9.63  | 244.6 | 300 | 2.07 | 38   | 965    | 29    | 737   | 15.56   | 23.16  |
| 10  | 254.0 | 11.51 | 292.4 | 300 | 2.07 | 48   | 1219   | 29    | 737   | 19.73   | 29.36  |
| 12  | 305.5 | 13.94 | 353.9 | 300 | 2.07 | 58   | 1473   | 29    | 737   | 28.89   | 42.98  |



## SMOOTH BORE DOCK 200



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

Transfer

STEAM VACUUM

VEYANCE

Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

APPENDIX

#### **Product Specifications**

APPLICATION: For the transfer of petroleum based products between docks and ships under all types of service

conditions. It is available in a number of tube compounds to tailor the fluid handling capabilities

to a wide variety of petroleum and chemical compositions.

CONSTRUCTION

TUBE: Nitrile synthetic rubber for up to 50% aromatics. Also available with a Flosyn® tube for up to

100% aromatics.

**COVER:** Black Chemivic<sup>™</sup> (smooth cover, wrap finish)

**REINFORCEMENT:** Spiral plied synthetic fabric with wire helix

TEMPERATURE: -25°F to 200°F (-32°C to 93°C)

PACKAGING: Chloroplast heavy-duty packaging

**BRANDING (SPIRAL):** Example: Goodyear® SB Dock oil service, 200 psi WP Nitrile

**COUPLINGS:** Coupled with standard built-in steel nipple/150#RFSO flanges. Available in other bolt hole

patterns, materials and floating flanges on request. Swage nipples are offered up to  $10^{\circ}$ .

Hose assembly is electrically continuous unless otherwise specified by customer.

NON-STOCK/SIZES: Custom lengths available, contact customer service.

**ORDER CODES:** 541-004 (Nitrile Tube) 541-586 (Flosyn® Tube)

#### **SMOOTH BORE DOCK 200**

| ı   | D     | NOM   | 1. OD | MAX | . WP | BEND | RADIUS | VACUI | JM HG | WE      | IGHT   |
|-----|-------|-------|-------|-----|------|------|--------|-------|-------|---------|--------|
| in. | mm.   | in.   | mm.   | psi | Мра  | in.  | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 3   | 76.2  | 4.25  | 108.0 | 200 | 1.38 | 18   | 457    | 29    | 737   | 4.50    | 6.70   |
| 4   | 101.6 | 5.29  | 134.4 | 200 | 1.38 | 24   | 610    | 29    | 737   | 6.15    | 9.15   |
| 6   | 152.4 | 7.45  | 189.2 | 200 | 1.38 | 36   | 914    | 29    | 737   | 11.27   | 16.77  |
| 8   | 203.2 | 9.62  | 244.4 | 200 | 1.38 | 48   | 1219   | 29    | 737   | 16.44   | 24.46  |
| 10  | 254.0 | 11.62 | 295.2 | 200 | 1.38 | 60   | 1524   | 29    | 737   | 21.21   | 31.56  |
| 12  | 304.8 | 13.94 | 354.1 | 200 | 1.38 | 72   | 1829   | 29    | 737   | 30.63   | 45.58  |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

**PETROLEUM** 

Aircraft Fueling Dispensing

Dock

Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## SMOOTH BORE DOCK 300



#### **Product Specifications**

APPLICATION: For the transfer of petroleum based products between docks and ships under all types of service

conditions. It is available in a number of tube compounds to tailor the fluid handling capabilities

to a wide variety of petroleum and chemical compositions.

CONSTRUCTION

TUBE: Nitrile synthetic rubber for up to 50% aromatics. Also available with a Flosyn® tube for up to

100% aromatics.

**COVER:** Black Wingprene® synthetic rubber

**REINFORCEMENT:** Spiral wire helix between plies of synthetic fabric

**TEMPERATURE:** -25°F to 200°F (-32°C to 93°C)

PACKAGING: Chloroplast heavy-duty packaging

**BRANDING (SPIRAL):** Example: Goodyear® SB Dock oil service, 300 psi WP Nitrile

COUPLINGS: Coupled with standard built-in steel nipple/150#RFSO flanges. Available in other bolt hole

patterns, materials and floating flanges on request. Swage nipples are offered up to 10". Hose assembly is electrically continuous unless otherwise specified by customer.

NON-STOCK/SIZES: Custom lengths available, contact customer service.

ORDER CODES: 541-580 (Nitrile Tube) 541-584 (Flosyn® Tube)

#### **SMOOTH BORE DOCK 300**

|     | ID    | NOM   | 1. OD | MAX | . WP | BEND | RADIUS | VACU | JM HG | WE      | IGHT   |
|-----|-------|-------|-------|-----|------|------|--------|------|-------|---------|--------|
| in. | mm.   | in.   | mm.   | psi | Мра  | in.  | mm.    | in.  | mm.   | lb./ft. | kg./m. |
| 3   | 76.2  | 4.25  | 108.0 | 300 | 2.07 | 21   | 533    | 29   | 737   | 4.48    | 6.67   |
| 4   | 101.6 | 5.29  | 134.4 | 300 | 2.07 | 27   | 686    | 29   | 737   | 6.15    | 9.15   |
| 6   | 152.4 | 7.51  | 190.8 | 300 | 2.07 | 39   | 991    | 29   | 737   | 11.72   | 17.44  |
| 8   | 203.2 | 9.78  | 248.4 | 300 | 2.07 | 51   | 1295   | 29   | 737   | 17.93   | 26.68  |
| 10  | 254.0 | 11.77 | 299.0 | 300 | 2.07 | 63   | 1600   | 29   | 737   | 22.99   | 34.21  |
| 12  | 304.8 | 14.15 | 359.4 | 300 | 2.07 | 75   | 1905   | 29   | 737   | 33.29   | 49.54  |



### TANKER BARGE DISCHARGE



**Product Specifications** 

**APPLICATION:** For discharge applications such as the transfer of petroleum-based products between docks

and barges

CONSTRUCTION

**TUBE:** Nitrile synthetic rubber for up to 50% aromatics

**COVER:** Black Wingprene® synthetic rubber

**REINFORCEMENT:** Spiral-plied synthetic fabric with grounding wires

**TEMPERATURE**: -25°F to 220°F (-32°C to 104°C)

PACKAGING: Chloroplast heavy-duty packaging

BRANDING (SPIRAL): Example: Goodyear® Tanker Barge Discharge, 200 psi WP Nitrile

**COUPLINGS:** Coupled with standard built-in steel nipple/150#RFSO flanges. Available in other bolt hole

patterns, materials and floating flanges on request. Swage nipples are offered up to 10". Hose assembly is electrically continuous unless otherwise specified by customer.

NON-STOCK/SIZES: Custom lengths available, contact customer service.

**ORDER CODES:** 541-426 (Nitrile tube)

**TANKER BARGE DISCHARGE** 

| 1   | D     | NOM   | 1. OD | MAX | . WP | WEI     | GHT    |
|-----|-------|-------|-------|-----|------|---------|--------|
| in. | mm.   | in.   | mm.   | psi | Мра  | lb./ft. | kg./m. |
| 4   | 101.6 | 5.09  | 129.3 | 200 | 1.38 | 4.30    | 6.40   |
| 6   | 152.4 | 7.08  | 179.8 | 200 | 1.38 | 6.18    | 9.20   |
| 8   | 203.2 | 9.08  | 230.6 | 200 | 1.38 | 8.06    | 11.99  |
| 10  | 254.0 | 11.06 | 280.9 | 200 | 1.38 | 9.93    | 14.78  |
| 12  | 304.8 | 13.28 | 337.3 | 200 | 1.38 | 13.91   | 20.70  |

Note: Factory coupled hose manufactured according to the code of Federal Regulations standard 33 CFR 154.500 and 33 CFR 156.170.

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

Transfer

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge

Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

**PETROLEUM** 

Aircraft Fueling Dispensing

Dock

Transfer

SPRAY

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### VAPOR RECOVERY DOCK



#### **Product Specifications**

APPLICATION: For use in the recovery of petroleum vapors during the transfer of petroleum-based products

between docks and tankers or barges.

CONSTRUCTION

Nitrile synthetic rubber for up to 50% aromatics. Also available with a Flosyn® tube for up to

100% aromatics.

**COVER:** Black Chemivic<sup>™</sup> synthetic rubber (corrugated)

REINFORCEMENT: Synthetic fabric plies plus two (2) wire helix

TEMPERATURE: -25°F to 200°F (-32°C to 93°C)

PACKAGING: Chloroplast heavy-duty packaging

**BRANDING (SPIRAL):** Example: Goodyear® Vapor Recovery 25 psi MWP

**COUPLINGS:** Built-in nipples (or swaged fittings up to 10" ID) fitted with 150# flange with extra 5/8"

diameter hole located midway between flange bolt hole as per Coast Guard requirements.

**NON-STOCK/SIZES:** Custom lengths available, contact customer service.

**ORDER CODES:** 541-090 (Nitrile Tube) 541-643 (Flosyn® Tube)

#### **VAPOR RECOVERY DOCK**

| ı   | D     | NOM   | I. OD | MAX. WP |      | BEND RADIUS |      | VACUUM HG |     | WEIGHT  |        |
|-----|-------|-------|-------|---------|------|-------------|------|-----------|-----|---------|--------|
| in. | mm.   | in.   | mm.   | psi     | Мра  | in.         | mm.  | in.       | mm. | lb./ft. | kg./m. |
| 6   | 152.4 | 6.86  | 174.2 | 25      | 0.17 | 22          | 559  | 29        | 737 | 5.70    | 8.48   |
| 8   | 203.2 | 8.89  | 225.8 | 25      | 0.17 | 30          | 762  | 29        | 737 | 8.26    | 12.29  |
| 10  | 254.0 | 10.97 | 278.6 | 25      | 0.17 | 40          | 1016 | 29        | 737 | 12.63   | 18.80  |
| 12  | 304.8 | 13.00 | 330.2 | 25      | 0.17 | 60          | 1524 | 29        | 737 | 15.07   | 22.43  |



### THOR™ DOCK



**Product Specifications** 

APPLICATION: For the transfer of petroleum products between docks and tankers and is rated for 250 working

psi. Not intended for offshore or submarine applications.

CONSTRUCTION

TUBE: Nitrile synthetic rubber

**COVER:** 1/4" Black Plioflex® synthetic rubber

**REINFORCEMENT:** Spiral wire helix between plies of synthetic fabric

TEMPERATURE: -25°F to 180°F (-32°C to 82°C)

PACKAGING: Heavy-duty plastic packaging

BRANDING (IMPRESSION): Example: Goodyear® SB Submarine oil service, Nitrile 225 psi WP

**COUPLINGS:** Coupled with galvanized built-in steel nipple/150#RFSO flanges. Available in other bolt hole

patterns, materials and floating flanges on request. Hose assembly is electrically continuous

unless otherwise specified by customer.

NON-STOCK/SIZES: Custom lengths available, contact customer service.

**ORDER CODES:** 541-577

THOR™ DOCK

| I   | D     | NOM   | I. OD | MAX | . WP | BEND I | RADIUS | WEIGHT  |        |  |
|-----|-------|-------|-------|-----|------|--------|--------|---------|--------|--|
| in. | mm.   | in.   | mm.   | psi | Мра  | in.    | mm.    | lb./ft. | kg./m. |  |
| 6   | 152.4 | 7.81  | 198.4 | 250 | 1.72 | 36     | 914    | 14.30   | 21.28  |  |
| 8   | 203.2 | 9.89  | 251.2 | 250 | 1.72 | 48     | 1219   | 20.05   | 29.84  |  |
| 10  | 254.0 | 12.07 | 306.6 | 250 | 1.72 | 60     | 1524   | 27.23   | 40.52  |  |
| 12  | 304.8 | 14.10 | 358.1 | 250 | 1.72 | 72     | 1829   | 31.93   | 47.52  |  |

Note: Factory coupled hose manufactured according to the code of Federal Regulations standard 33 CFR 154.500 and 33 CFR 156.170.

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

> Transfer SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing

Dock

Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

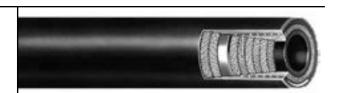
WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## HOT TAR & ASPHALT



#### **Product Specifications**

APPLICATION: Designed for petroleum-based products up to 350°F between docks and tankers or barges under

 $\begin{tabular}{ll} heavy-duty conditions. \\ \begin{tabular}{ll} \textbf{CONSTRUCTION} \end{tabular}$ 

TUBE: Nitrile synthetic rubber, flat steel wire helix supporting the tube

**COVER:** Wingprene® synthetic rubber

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

**TEMPERATURE:** -25°F to 350°F (-32°C to 177°C)

**PACKAGING:** Custom lengths available, contact customer service.

**BRANDING:** Example: Goodyear® RB Dock hot asphalt, 350°F, 225 psi max

**COUPLINGS:** Coupled with galvanized built-in steel nipple/150#RFSO flanges. Available in other bolt hole

patterns, materials and floating flanges on request. Smooth bore assembly is electrically continuous unless otherwise specified by customer. Rough bore assembly is offered as

electrically continuous only.

NON-STOCK/SIZES: Custom lengths available, contact customer service.

SMOOTH BORE ORDER CODES: 541-606

|   | ı   | D     | NOM   | 1. OD | MAX | . WP | BEND | RADIUS | VACUI | JM HG | WE      | IGHT   |
|---|-----|-------|-------|-------|-----|------|------|--------|-------|-------|---------|--------|
|   | in. | mm.   | in.   | mm.   | psi | Мра  | in.  | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| - | 4   | 101.6 | 5.28  | 134.1 | 225 | 1.55 | 36   | 914    | 29    | 737   | 6.48    | 9.64   |
|   | 6   | 152.4 | 7.72  | 196.1 | 225 | 1.55 | 48   | 1219   | 29    | 737   | 13.83   | 20.58  |
|   | 8   | 203.2 | 9.80  | 248.9 | 225 | 1.55 | 60   | 1524   | 29    | 737   | 19.11   | 28.44  |
|   | 10  | 254.0 | 11.80 | 299.7 | 225 | 1.55 | 80   | 2032   | 29    | 737   | 23.20   | 34.52  |

| ROUGH | I BORE |       |       | ORDER ( | CODES: 5 | 41-582 |             |     |       |         |        |
|-------|--------|-------|-------|---------|----------|--------|-------------|-----|-------|---------|--------|
| ı     | D      | NOM   | 1. OD | MAX. WP |          | BEND   | BEND RADIUS |     | JM HG | WEIGHT  |        |
| in.   | mm.    | in.   | mm.   | psi     | Мра      | in.    | mm.         | in. | mm.   | lb./ft. | kg./m. |
| 6     | 152.4  | 8.19  | 208.0 | 225     | 1.55     | 36     | 914         | 29  | 737   | 16.19   | 24.09  |
| 8     | 203.2  | 10.25 | 260.4 | 225     | 1.55     | 48     | 1219        | 29  | 737   | 22.39   | 33.32  |
| 10    | 254.0  | 12.31 | 312.7 | 225     | 1.55     | 60     | 1524        | 29  | 737   | 29.09   | 43.29  |



### **TRANSFER**



|   |      |                |               | 1                |             |
|---|------|----------------|---------------|------------------|-------------|
|   | Page | Temp Range     | Refined Fuels | Corrugated Cover | Lightweight |
| Arctic ExtremeFlex <sup>™</sup>         | 175  | -65°F to 180°F | Yes           | Yes              | Yes         |
| Flextra® Oilfield                       | 186  | -25°F to 180°F |               | Yes              |             |
| Flexwing® Oilfield                      | 185  | -25°F to 180°F |               |                  |             |
| Flexwing VersaFuel™                     | 176  | -30°F to 180°F | Yes           |                  |             |
| Infinity <sup>™</sup> Fuel Drop Hose    | 177  | -40°F to 160°F | Yes           | Yes              | Yes         |
| Infinity <sup>™</sup> HD Fuel Drop Hose | 178  | -40°F to 160°F | Yes           | Yes              | Yes         |
| LW Arctic Tank Truck                    | 188  | -65°F to 180°F |               | Yes              | Yes         |
| Paladin®                                | 180  | -40°F to 160°F | Yes           | Yes              | Yes         |
| Plicord® Arctic Flexwing®               | 187  | -65°F to 180°F | Yes           |                  |             |
| Plicord® ExtremeFlex™                   | 191  | -40°F to 200°F | Yes           | Yes              | Yes         |
| Plicord® Flexwing® Petroleum            | 179  | -35°F to 200°F | Yes           |                  |             |
| Plicord® Fuel Discharge                 | 190  | -35°F to 180°F | Yes           |                  |             |
| Plicord® LW Black Flextra II™           | 184  | -40°F to 180°F | Yes           | Yes              | Yes         |
| Plicord® Oilfield Frac                  | 183  | -25°F to 180°F |               |                  |             |
| Plicord® Super Black Flexwing®          | 182  | -35°F to 200°F | Yes           |                  |             |
| Plicord® Waste Mate™                    | 189  | -25°F to 180°F |               |                  |             |
| Pyroflex® Hot Tar & Asphalt II          | 193  | -25°F to 350°F |               |                  |             |
| Pyroflex® Hot Tar Wand                  | 194  | -25°F to 350°F |               |                  |             |
| Red Flextra® 100                        | 181  | -30°F to 180°F | Yes           | Yes              | Yes         |
| Red Flextra® 150                        | 181  | -30°F to 180°F | Yes           | Yes              | Yes         |
| Redwing® Fuel Oil                       | 174  | -40°F to 140°F | Yes           |                  |             |
| Spiraflex® Polyurethane Vapor Recovery  | 192  | -30°F to 150°F |               | Yes              | Yes         |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

#### **PETROLEUM**

Aircraft Fueling Dispensing Dock

Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## REDWING® FUEL OIL



#### **Product Specifications**

**APPLICATION:** Redwing® Fuel Oil is for transfer and delivery of fuel oil and petroleum products for home

delivery, commercial and industrial service. Redwing Fuel Oil has two textile braids. The braided construction reduces kinking and twisting when reeling. The smooth cover has low

drag resistance.

CONSTRUCTION

TUBE: Nitrile synthetic rubber (ORS)

**COVER:** Red Chemivic<sup>™</sup> synthetic rubber (smooth finish) (ORS)

**REINFORCEMENT:** Braided (2) synthetic yarn

**TEMPERATURE:** -40°F to 140°F (-40°C to 60°C)

PACKAGING: Reels, cut lengths, and coupled lengths

**BRANDING:** Example: 1" (25.4 mm) 2 BD Redwing® Fuel Oil Goodyear.® Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 532-016

#### **REDWING® FUEL OIL**

| ID   |      | NOM  | 1. OD | MAX | . WP | WEIGHT  |        |  |
|------|------|------|-------|-----|------|---------|--------|--|
| in.  | mm.  | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 1    | 25.4 | 1.50 | 38.1  | 250 | 1.72 | 0.57    | 0.85   |  |
| 11/4 | 31.8 | 1.80 | 45.7  | 250 | 1.72 | 0.65    | 0.97   |  |
| 13/8 | 34.9 | 1.88 | 47.8  | 250 | 1.72 | 0.70    | 1.04   |  |
| 1½   | 38.1 | 2.10 | 53.3  | 250 | 1.72 | 0.92    | 1.37   |  |



### ARCTIC EXTREMEFLEX™



#### A New Degree of Flexibility



### **Product Specifications**

APPLICATION: An extremely flexible and lightweight drop hose for transfer of petroleum-based products under suction,

low-pressure discharge or gravity flow. Flexibility maintained down to -65°F (-54°C).

CONSTRUCTION

**TUBE:** Black Nitrile, RMA Class A (High Oil Resistance)

**COVER:** Corrugated Black Wingprene® synthetic rubber (wrapped impression), blue spiral stripe

Corrugated Blue Wingprene® synthetic rubber (wrapped impression), red spiral stripe

**REINFORCEMENT:** Spiral-plied synthetic fabric with double wire helix

**TEMPERATURE:** -65°F to 180°F (-54°C to 82°C)

PACKAGING: Coiled and polywrapped

BRANDING (SPIRAL): Example: Goodyear® Plicord® Arctic ExtremeFlex™ Petroleum Transfer 150PSI WP

**COUPLINGS:** Use Goodyear® Insta-Lock™ Cam & Groove Fittings

NON-STOCK/SIZES: 400' minimum order

**ORDER CODES:** 543-807 (black) 543-451 (blue)

#### **ARCTIC EXTREMEFLEX™**

| ID |     | NOM. OD |      | MAX. WP |     | BEND RADIUS |     | VACUUM HG |     | WEIGHT |         |        |
|----|-----|---------|------|---------|-----|-------------|-----|-----------|-----|--------|---------|--------|
|    | in. | mm.     | in.  | mm.     | psi | Мра         | in. | mm.       | in. | mm.    | lb./ft. | kg./m. |
|    | 2   | 51      | 2.5  | 63.5    | 150 | 1.03        | 2   | 51        | 29  | 737    | 1.08    | 1.61   |
|    | 3   | 76      | 3.48 | 88.5    | 150 | 1.03        | 3   | 76        | 29  | 737    | 1.62    | 2.41   |
|    | 4   | 102     | 4.55 | 115.7   | 150 | 1.03        | 4   | 102       | 29  | 737    | 2.35    | 3.50   |



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

#### **PETROLEUM**

Aircraft Fueling Dispensing Dock

Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### FLEXWING VERSAFUEL™



#### **Product Specifications**

**APPLICATION:** For use in tank truck and in-plant operation to transfer diesel, biodiesel blends, B-100, ethanol

blends, gasoline, oil and petroleum base products up to 60% aromatic content.

CONSTRUCTION
TUBE: Synthetic rubber (static dissipating)

**COVER:** Black synthetic rubber with excellent resistance to biodiesel, ethanol, oil/petroleum products

and abrasion.

**REINFORCEMENT:** Spiral-plied synthetic fabric with helix wire

**TEMPERATURE**: -30°F to 180°F (-34°C to 82°C)

**PACKAGING:** 100' lengths, coiled and polywrapped.

**BRANDING (SPIRAL):** Example: Goodyear® Flexwing VersaFuel™ 150 PSI WP

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock™ Cam and Groove fittings with this product.

NON-STOCK/SIZES: 400' minimum order

**ORDER CODES:** 543-422

#### **FLEXWING VERSAFUEL™**

| ID   |       | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|------|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in.  | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 1    | 25.4  | 1.50    | 38.1  | 150     | 1.03 | 2           | 50  | 29        | 737 | 0.59    | 0.88   |
| 11/4 | 32.0  | 1.77    | 44.8  | 150     | 1.03 | 3           | 75  | 29        | 737 | 0.74    | 1.10   |
| 1½   | 38.0  | 2.03    | 51.7  | 150     | 1.03 | 4           | 100 | 29        | 737 | 0.92    | 1.37   |
| 2    | 51.2  | 2.55    | 64.9  | 150     | 1.03 | 5           | 125 | 29        | 737 | 1.21    | 1.80   |
| 21/2 | 63.7  | 3.07    | 77.9  | 150     | 1.03 | 6           | 150 | 29        | 737 | 1.56    | 2.32   |
| 3    | 76.1  | 3.58    | 91.0  | 150     | 1.03 | 7           | 175 | 29        | 737 | 1.94    | 2.89   |
| 4    | 102.1 | 4.60    | 117.0 | 150     | 1.03 | 10          | 200 | 29        | 737 | 2.53    | 3.77   |



### INFINITY™ FUEL DROP HOSE



#### **Product Specifications**

**APPLICATION:** Constructed with the exclusive PVC double helix for superior flexibility, abrasion resistance

and low coefficient of friction for ease of maneuverability. Lightweight in construction, it is designed to transfer biodiesel and ethanol blends, gasoline and other petroleum products under pressure, gravity flow or medium suction (up to 23° Hg) at ambient temperature and

with an aromatic content of 60% or less.

CONSTRUCTION

**TUBE:** Black Nitrile synthetic rubber (static dissipating)

**COVER:** Black Chemivic<sup>™</sup> synthetic rubber with orange & green Pliovic<sup>®</sup> outer helix

**REINFORCEMENT:** Synthetic fabric plies with static wire

**TEMPERATURE:**  $-40^{\circ}$ F to  $160^{\circ}$ F ( $-40^{\circ}$ C to  $71^{\circ}$ C)

PACKAGING: Coiled and polywrapped. For cut length, check with your Goodyear Engineered Products

distributors.

**BRANDING:** Example: Infinity<sup>™</sup> Drop Hose Goodyear<sup>®</sup>

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock™ Cam & Groove Fittings with this product.

**ORDER CODES:** 543-773

INFINITY™

| ID  |       | NOM. OD |        | MAX. WP |      | BEND RADIUS |      | VACUUM HG |     | WEIGHT  |        |
|-----|-------|---------|--------|---------|------|-------------|------|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.    | psi     | Мра  | in.         | mm.  | in.       | mm. | lb./ft. | kg./m. |
| 2   | 51.0  | 2.80    | 70.50  | 150     | 1.03 | 1.5         | 1.02 | 23        | 584 | 1.02    | 1.52   |
| 3   | 76.0  | 3.80    | 95.48  | 100     | 0.69 | 2.0         | 1.46 | 23        | 584 | 1.46    | 2.18   |
| 4   | 102.0 | 4.80    | 121.47 | 75      | 0.52 | 2.5         | 1.73 | 23        | 584 | 1.73    | 2.57   |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WALER ischarge)

Suction & Discharge

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

#### **PETROLEUM**

Aircraft Fueling Dispensing Dock

Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### INFINITY™ HD FUEL DROP HOSE



#### **Product Specifications**

**APPLICATION:** Constructed with the exclusive PVC double helix for superior flexibility, abrasion resistance

and low coefficient of friction for ease of maneuverability. Lightweight in construction, Infinity™ HD (Heavy Duty) is designed for higher working pressure applications (150 PSI). It is suitable in gravity flow or medium suction at ambient temperature. Designed to transfer biodiesel and ethanol blends, gasoline and other petroleum products with an aromatic

content of 60% or less.

CONSTRUCTION

**TUBE:** Black Nitrile synthetic rubber (static dissipating)

**COVER:** Synthetic fabric plies

**REINFORCEMENT:** Black Chemivic® synthetic rubber with double Orange Pliovic® outer helix

**TEMPERATURE:** -40°F to 160°F (-40°C to 71°C)

PACKAGING: Coiled and polywrapped. For cut length, check with your Goodyear Engineered Products

Authorized Distributor.

**BRANDING:** Infinity<sup>™</sup> HD Drop Hose 150psi Goodyear<sup>®</sup>

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

**ORDER CODES:** 543-138

#### **INFINITY™ HD**

| ID  |       | NOM. OD |        | MAX. WP |      | BEND RADIUS |      | VACUUM HG |     | WEIGHT  |        |
|-----|-------|---------|--------|---------|------|-------------|------|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.    | psi     | Мра  | in.         | mm.  | in.       | mm. | lb./ft. | kg./m. |
| 2   | 51.0  | 2.80    | 70.50  | 150     | 1.03 | 1.5         | 38.1 | 23        | 584 | 1.01    | 1.51   |
| 3   | 76.0  | 3.80    | 95.90  | 150     | 1.03 | 2.0         | 50.8 | 23        | 584 | 1.48    | 2.21   |
| 4   | 102.0 | 4.80    | 122.50 | 150     | 1.03 | 3.0         | 76.2 | 23        | 584 | 2.01    | 2.99   |



## PLICORD® FLEXWING® PETROLEUM



### **Product Specifications**

APPLICATION: For use in tank truck and in-plant operations to transfer gasoline, oil, ethanol blends and other

petroleum base products up to 50% aromatic content. It is designed for pressure, gravity flow,

or full-suction service.

CONSTRUCTION

**TUBE:** Nitrile synthetic rubber RMA Class A (High Oil Resistance)

**COVER:** Black (red spiral stripe) or Red Chemivic<sup>™</sup> (white spiral stripe) synthetic rubber (oil resistant);

smooth cover; wrapped finish

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

**TEMPERATURE:** -35°F to 200°F (-37°C to 93°C)

PACKAGING: 100' lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Goodyear® Flexwing® Petroleum 150 psi WP

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 543-109 (black) 543-110 (red) 541-109 (black 8-inch size)

#### PLICORD® FLEXWING®

| 1    | D     | NOM  | 1. OD | MAX | . WP | BEND I | RADIUS | VACUI | JM HG | WEI     | GHT    |
|------|-------|------|-------|-----|------|--------|--------|-------|-------|---------|--------|
| in.  | mm.   | in.  | mm.   | psi | Мра  | in.    | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 3/4  | 19.1  | 1.22 | 31.0  | 150 | 1.03 | 2      | 51     | 29    | 737   | 0.47    | 0.70   |
| 1    | 25.4  | 1.50 | 38.1  | 150 | 1.03 | 2      | 51     | 29    | 737   | 0.63    | 0.94   |
| 11/4 | 31.8  | 1.76 | 44.7  | 150 | 1.03 | 3      | 76     | 29    | 737   | 0.79    | 1.18   |
| 11/2 | 38.1  | 2.03 | 51.6  | 150 | 1.03 | 4      | 102    | 29    | 737   | 0.99    | 1.47   |
| 1¾   | 44.5  | 2.28 | 57.9  | 150 | 1.03 | 4      | 102    | 29    | 737   | 1.07    | 1.59   |
| 2    | 50.8  | 2.55 | 64.8  | 150 | 1.03 | 5      | 114    | 29    | 737   | 1.30    | 1.93   |
| 21/2 | 63.5  | 3.07 | 78.0  | 150 | 1.03 | 6      | 146    | 29    | 737   | 1.66    | 2.47   |
| 3    | 76.2  | 3.57 | 90.7  | 150 | 1.03 | 7      | 178    | 29    | 737   | 2.03    | 3.02   |
| 31/2 | 88.9  | 4.13 | 104.9 | 150 | 1.03 | 8      | 203    | 29    | 737   | 2.39    | 3.56   |
| 4    | 101.6 | 4.60 | 116.8 | 150 | 1.03 | 10     | 254    | 29    | 737   | 2.68    | 3.99   |
| 6    | 152.7 | 6.78 | 171.9 | 150 | 1.03 | 30     | 762    | 29    | 737   | 5.61    | 8.36   |
| 8    | 203.2 | 8.97 | 227.8 | 150 | 1.03 | 36     | 914    | 29    | 737   | 9.53    |        |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

#### **PETROLEUM**

Aircraft Fueling Dispensing Dock

Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

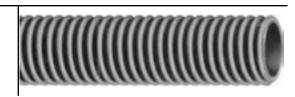
WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## **PALADIN®**



### **Product Specifications**

**APPLICATION:** Designed as a lightweight and flexible hose to transfer biodiesel and ethanol blends, gasoline

and other petroleum products under pressure, gravity flow or medium suction (up to 23" Hg) at ambient temperature. Maximum aromatic content 60%. Outer PVC helix provides abrasion

resistance and low coefficient of friction. With Antistatic wire (low resistance).

CONSTRUCTION TUBE:

Black Nitrile synthetic rubber (static dissipating)

**COVER:** Black Chemivic<sup>™</sup> synthetic rubber with Orange Pliovic<sup>®</sup> outer helix

**REINFORCEMENT:** Synthetic fabric plies

**TEMPERATURE:** -40°F to 160°F (-40°C to 71°C)

PACKAGING: 100' lengths, coiled and bagel pack

**BRANDING:** Example: Goodyear® Paladin® Drop Hose (Date Code). Made in Canada

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock<sup>™</sup> Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 543-227

#### **PALADIN®**

| ı   | D     | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WE      | IGHT   |
|-----|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 2   | 50.8  | 2.87    | 72.9  | 150     | 1.03 | 2           | 51  | 23        | 584 | 1.04    | 1.55   |
| 3   | 76.2  | 3.92    | 99.6  | 150     | 1.03 | 3           | 76  | 23        | 584 | 1.58    | 2.35   |
| 4   | 101.6 | 4.85    | 123.2 | 75      | 0.52 | 5           | 127 | 23        | 584 | 1.94    | 2.89   |



## RED FLEXTRA®



**Product Specifications** 

APPLICATION: For the transfer of ethanol blends, gasoline and other petroleum-based products under pressure,

gravity flow or full-suction where maximum flexibility is needed.

CONSTRUCTION

**TUBE:** Nitrile synthetic rubber RMA Class A (High Oil Resistance)

**COVER:** Red Wingprene®, corrugated synthetic rubber RMA Class A (High Oil Resistance)

**REINFORCEMENT:** Spiral-plied synthetic fabric with double wire helix

TEMPERATURE: -30°F to 180°F (-34°C to 82°C)

PACKAGING: 100' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Red Flextra.® Made in Canada

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 543-123

RED FLEXTRA® 100

| ı | ı   | D     | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WE      | IGHT   |
|---|-----|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| I | in. | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
|   | 2   | 50.8  | 2.38    | 60.3  | 100     | 0.69 | 4           | 102 | 29        | 737 | 0.83    | 1.09   |
|   | 2½  | 63.5  | 2.88    | 73.2  | 100     | 0.69 | 5           | 127 | 29        | 737 | 1.09    | 1.62   |
|   | 3   | 76.2  | 3.41    | 86.6  | 100     | 0.69 | 6           | 152 | 29        | 737 | 1.41    | 2.10   |
|   | 4   | 101.6 | 4.53    | 115.1 | 100     | 0.69 | 9           | 229 | 29        | 737 | 2.23    | 3.32   |

RED FLEXTRA® 150 ORDER CODES: 543-120

| 1   | D     | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WE      | IGHT   |
|-----|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 2   | 50.8  | 2.52    | 64.0  | 150     | 1.03 | 4           | 102 | 29        | 737 | 1.18    | 1.76   |
| 3   | 76.2  | 3.59    | 91.2  | 150     | 1.03 | 6           | 152 | 29        | 737 | 1.99    | 2.96   |
| 4   | 101.6 | 4.61    | 117.1 | 150     | 1.03 | 9           | 229 | 29        | 737 | 2.66    | 3.96   |

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

Transfer

SPRAY

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLICORD® SUPER BLACK FLEXWING®



#### **Product Specifications**

APPLICATION: A premium high pressure petroleum transfer hose for handling ethanol blends, gasoline, oils and

other petroleum products at higher working pressures.

CONSTRUCTION

TUBE: Special fuel-resistant Black nitrile synthetic rubber RMA Class A (High Oil Resistance)

COVER: Black Neoprene synthetic rubber RMA Class A (High Oil Resistance), wrapped finish

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

TEMPERATURE: -35°F to 200°F (-37°C to 93°C)

PACKAGING: 100' lengths, coiled and polywrapped

**BRANDING:** Example: Goodyear® Flexwing® Petroleum Hose

COUPLINGS: Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 543-117 541-117 (6" diameter, 100' length)

#### PLICORD® SUPER BLACK FLEXWING®

| ı    | D     | NON  | I. OD | MAX | . WP | BEND I | RADIUS | VACU | JM HG | WE      | IGHT   |
|------|-------|------|-------|-----|------|--------|--------|------|-------|---------|--------|
| in.  | mm.   | in.  | mm.   | psi | Мра  | in.    | mm.    | in.  | mm.   | lb./ft. | kg./m. |
| 1    | 25.4  | 1.53 | 38.8  | 250 | 1.72 | 3      | 75     | 29   | 737   | .70     | 1.04   |
| 11/4 | 31.8  | 1.87 | 47.1  | 250 | 1.72 | 4      | 100    | 29   | 737   | .99     | 1.48   |
| 1½   | 38.1  | 2.08 | 52.8  | 250 | 1.72 | 4      | 100    | 29   | 737   | 1.15    | 1.71   |
| 2    | 50.8  | 2.59 | 65.8  | 250 | 1.72 | 5      | 125    | 29   | 737   | 1.44    | 2.14   |
| 2½   | 63.5  | 3.11 | 79.0  | 250 | 1.72 | 6      | 150    | 29   | 737   | 1.84    | 2.74   |
| 3    | 76.2  | 3.65 | 92.7  | 250 | 1.72 | 7      | 175    | 29   | 737   | 2.39    | 3.56   |
| 4    | 101.6 | 4.83 | 122.7 | 250 | 1.72 | 10     | 254    | 29   | 737   | 3.76    | 5.60   |
| 5    | 127.0 | 5.87 | 149.0 | 250 | 1.72 | 20     | 500    | 29   | 737   | 5.10    | 7.60   |
| 6    | 152.4 | 7.21 | 183.3 | 250 | 1.72 | 24     | 600    | 29   | 737   | 8.46    | 12.60  |



## PLICORD® OILFIELD FRAC





## **Product Specifications**

**APPLICATION:** A rugged and flexible hose designed to convey crude oil and oil slurry mixtures for Frac tank connections.

CONSTRUCTION

TUBE: Black Nitrile

**COVER:** Black Chemivic<sup>™</sup>, smooth cover with wrapped finish. Also available with ARC treatment for improved

abrasion resistance.

**REINFORCEMENT:** Multiple plies of synthetic fabric

**TEMPERATURE**: -25°F to 180°F (-32°C to 82°C)

PACKAGING: 100' length, coiled and polywrapped

**BRANDING (SPIRAL):** Goodyear® Oilfield Fracturing Hose

**COUPLINGS:** Swage-on coupling; contact coupling manufacturer

**ORDER CODES:** 543-827 543-710 (ARC Treatment) 541-710

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

# PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

#### PLICORD® OILFIELD FRAC

| II. | D     | NOM  | . OD   | MAX | . WP | WEIGHT  |       |  |
|-----|-------|------|--------|-----|------|---------|-------|--|
| in. | mm.   | in.  | mm.    | psi | Мра  | lb./ft. | kg./m |  |
| 3   | 76.2  | 3.87 | 98.30  | 400 | 2.76 | 2.52    | 3.74  |  |
| 4   | 101.6 | 4.76 | 120.85 | 400 | 2.76 | 2.85    | 4.21  |  |
| 6   | 152.0 | 6.77 | 175.00 | 400 | 2.76 | 4.6     | 6.84  |  |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLICORD® LW BLACK FLEXTRA II™



### **Product Specifications**

**APPLICATION:** Used by tank trucks, bulk petroleum stations, and others to transfer ethanol blends and

petroleum products under pressure, suction and/or gravity flow. Extremely flexible and lightweight

to provide excellent service. Not recommended where aromatic content exceeds 50%.

CONSTRUCTION

TUBE: Black Nitrile RMA Class A (High Oil Resistance)

**COVER:** Black Chemivic<sup>™</sup> (corrugated)

**REINFORCEMENT:** Spiral-plied synthetic fabric with double wire helix

**TEMPERATURE:** -40°F to 180°F (-40°C to 82°C)

PACKAGING: 100' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® LW Black Flextra II™ 75 psi Max WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 543-562

#### PLICORD® LW BLACK FLEXTRA II™

| - 1 | D     | NOM  | 1. OD | MAX | . WP | BEND I | RADIUS | VACUI | JM HG | WE      | IGHT   |
|-----|-------|------|-------|-----|------|--------|--------|-------|-------|---------|--------|
| in. | mm.   | in.  | mm.   | psi | Мра  | in.    | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 2   | 50.8  | 2.42 | 61.5  | 75  | 0.52 | 3      | 76     | 29    | 737   | 0.94    | 1.40   |
| 2½  | 63.5  | 2.92 | 74.2  | 75  | 0.52 | 4      | 102    | 29    | 737   | 1.22    | 1.82   |
| 3   | 76.2  | 3.40 | 86.4  | 75  | 0.52 | 4      | 102    | 29    | 737   | 1.39    | 2.07   |
| 4   | 101.6 | 4.53 | 115.1 | 75  | 0.52 | 7      | 178    | 29    | 737   | 2.37    | 3.53   |



## FLEXWING® OILFIELD



### **Product Specifications**

**APPLICATION:** For use in transfer hose service, cleaning sediment from oil storage tanks and other general

service applications. The tube is an oil-resistant synthetic rubber. Do not use with gasoline and

other refined products when aromatic content exceeds 35%.

CONSTRUCTION

TUBE: Synthetic rubber

**COVER:** Black Plioflex® synthetic rubber (smooth cover)

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

TEMPERATURE: -25°F to 180°F (-32°C to 82°C)

PACKAGING: 100' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Flexwing® Oilfield

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 543-655

#### **FLEXWING® OILFIELD**

| - 1 | D     | NOM  | I. OD | MAX | . WP | BEND I | RADIUS | VACUI | JM HG | WEI     | GHT    |
|-----|-------|------|-------|-----|------|--------|--------|-------|-------|---------|--------|
| in. | mm.   | in.  | mm.   | psi | Мра  | in.    | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 1½  | 38.1  | 1.97 | 50.0  | 150 | 1.03 | 4.00   | 102    | 29    | 737   | 0.86    | 1.28   |
| 2   | 50.8  | 2.48 | 63.0  | 150 | 1.03 | 4.50   | 114    | 29    | 737   | 1.12    | 1.67   |
| 2½  | 63.5  | 3.00 | 76.2  | 150 | 1.03 | 5.75   | 146    | 29    | 737   | 1.40    | 2.08   |
| 3   | 76.2  | 3.53 | 89.7  | 150 | 1.03 | 7.00   | 178    | 29    | 737   | 1.85    | 2.75   |
| 4   | 101.6 | 4.59 | 116.6 | 150 | 1.03 | 10.00  | 254    | 29    | 737   | 2.66    | 3.96   |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

#### **PETROLEUM**

Aircraft Fueling Dispensing Dock

Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## FLEXTRA® OILFIELD



#### **Product Specifications**

**APPLICATION:** Flextra® Oilfield transfer hose is designed for use in tank truck or in-plant applications for the

transfer of DILUTED industrial chemicals and petroleum waste, sludge and sediments. It is not recommended for refined petroleum products or concentrated industrial chemicals. DO NOT use

with gasoline and other refined products when aromatic content exceeds 35%.

CONSTRUCTION

**TUBE:** Synthetic rubber

**COVER:** Black Plioflex® synthetic rubber (corrugated cover)

**REINFORCEMENT:** Spiral-plied synthetic fabric with double wire helix

**TEMPERATURE:** -25°F to 180°F (-32°C to 82°C)

PACKAGING: 100' lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Goodyear® Flextra® Oilfield

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 543-691

#### FLEXTRA® OILFIELD

|      | ID    | NOM  | 1. OD | MAX | . WP | BEND I | RADIUS | VACUI | JM HG | WE      | IGHT   |
|------|-------|------|-------|-----|------|--------|--------|-------|-------|---------|--------|
| in.  | mm.   | in.  | mm.   | psi | Мра  | in.    | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 11/4 | 25.4  | 1.63 | 41.4  | 150 | 1.03 | 3      | 75     | 29    | 737   | 0.57    | 0.85   |
| 1½   | 38.1  | 1.92 | 48.8  | 150 | 1.03 | 4      | 100    | 29    | 737   | 0.74    | 1.10   |
| 2    | 50.8  | 2.44 | 62.0  | 125 | 0.86 | 4      | 102    | 29    | 737   | 0.94    | 1.4    |
| 3    | 76.2  | 3.52 | 89.4  | 125 | 0.86 | 6      | 152    | 29    | 737   | 1.71    | 2.54   |
| 4    | 101.6 | 4.52 | 114.8 | 100 | 0.69 | 8      | 203    | 29    | 737   | 2.17    | 3.23   |



## PLICORD® ARCTIC FLEXWING®



**Product Specifications** 

APPLICATION: Plicord® Arctic Flexwing® is for use in low-temperature operations for transferring gasoline, oil

and other petroleum products.

CONSTRUCTION

**TUBE:** Ultra-low temperature oil resistant synthetic rubber RMA Class A (High Oil Resistance)

**COVER:** Blue ultra-low temperature synthetic rubber RMA Class A (High Oil Resistance) with red spiral

stripe. Smooth cover, wrapped finish

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

TEMPERATURE: -65°F to 180°F (-54°C to 82°C)

PACKAGING: 100' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Arctic Flexwing® 150 psi WP

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES: 543-650** 

#### PLICORD® ARCTIC FLEXWING®

| 1    | D     | NOM  | 1. OD | MAX | . WP | BEND I | RADIUS | VACU | JM HG | WE      | IGHT   |
|------|-------|------|-------|-----|------|--------|--------|------|-------|---------|--------|
| in.  | mm.   | in.  | mm.   | psi | Мра  | in.    | mm.    | in.  | mm.   | lb./ft. | kg./m. |
| 11/4 | 31.8  | 1.73 | 43.9  | 150 | 1.03 | 3      | 80     | 29   | 737   | 0.66    | 0.98   |
| 1½   | 38.1  | 1.98 | 50.3  | 150 | 1.03 | 4      | 102    | 29   | 737   | 0.82    | 1.22   |
| 2    | 50.8  | 2.50 | 63.5  | 150 | 1.03 | 5      | 127    | 29   | 737   | 1.07    | 1.59   |
| 2½   | 63.5  | 3.09 | 78.5  | 150 | 1.03 | 6      | 152    | 29   | 737   | 1.64    | 2.44   |
| 3    | 76.2  | 3.58 | 90.9  | 150 | 1.03 | 7      | 178    | 29   | 737   | 1.92    | 2.86   |
| 4    | 101.6 | 4.70 | 119.4 | 150 | 1.03 | 10     | 254    | 29   | 737   | 2.88    | 4.29   |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

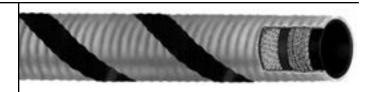
WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## LW ARCTIC TANK TRUCK



### **Product Specifications**

APPLICATION: For transfer of petroleum-based products under suction, low-pressure discharge or gravity flow.

Flexibility maintained down to -65°F (-54°C).

CONSTRUCTION
TUBE: Black Nitrile RM

TUBE: Black Nitrile RMA Class A (High Oil Resistance)

**COVER:** Blue Wingprene® (corrugated)

**REINFORCEMENT:** Spiral-plied synthetic fabric with double wire helix

**TEMPERATURE:** -65°F to 180°F (-54°C to 82°C)

PACKAGING: 100' lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Goodyear® LW Arctic Tank Truck 150 psi/10 Bar

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 543-365

#### LW ARCTIC TANK TRUCK

| ı   | D     | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WE      | IGHT   |
|-----|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 2   | 50.8  | 2.53    | 64.3  | 200     | 1.38 | 4           | 100 | 29        | 737 | 1.11    | 1.64   |
| 2½  | 63.5  | 3.02    | 76.7  | 150     | 1.03 | 5           | 125 | 29        | 737 | 1.42    | 2.11   |
| 3   | 76.2  | 3.55    | 90.2  | 150     | 1.03 | 6           | 150 | 29        | 737 | 1.83    | 2.72   |
| 4   | 101.6 | 4.61    | 117.1 | 150     | 1.03 | 9           | 225 | 29        | 737 | 2.62    | 3.90   |



## PLICORD® WASTE MATE™



**Product Specifications** 

**APPLICATION:** Designed for use in tank truck or in-plant applications for the transfer of DILUTED industrial

chemicals and petroleum waste, sludge and sediments. It is not recommended for refined

petroleum products or concentrated industrial chemicals.

CONSTRUCTION

**TUBE:** Black Nitrile RMA Class A (High Oil Resistance)

**COVER:** Black SBR (wrapped cover) orange branding tape

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

TEMPERATURE: -25°F to 180°F (-32°C to 82°C)

PACKAGING: 100' length, coiled, polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Plicord® Waste Mate™ 150 psi

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-853

PLICORD® WASTE MATE™

| I   | D     | NOM  | 1. OD | MAX | . WP | BEND I | RADIUS | VACUI | JM HG | WEI     | GHT    |
|-----|-------|------|-------|-----|------|--------|--------|-------|-------|---------|--------|
| in. | mm.   | in.  | mm.   | psi | Мра  | in.    | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 2   | 50.8  | 2.48 | 63.0  | 150 | 1.03 | 4      | 102    | 29    | 737   | 1.11    | 1.65   |
| 2½  | 63.5  | 3.00 | 76.2  | 150 | 1.03 | 5      | 127    | 29    | 737   | 1.42    | 2.11   |
| 3   | 76.2  | 3.52 | 89.4  | 150 | 1.03 | 6      | 152    | 29    | 737   | 1.88    | 2.80   |
| 4   | 101.6 | 4.58 | 116.3 | 150 | 1.03 | 8      | 203    | 29    | 737   | 2.62    | 3.90   |

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM

Aircraft Fueling Dispensing Dock

Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLICORD® FUEL DISCHARGE



#### **Product Specifications**

**APPLICATION:** Plicord® Fuel Discharge hose is for the discharge of gasoline, oil, ethanol blends and other

petroleum based products in tank and industrial applications.

CONSTRUCTION

**TUBE:** Nitrile synthetic rubber RMA Class A (High Oil Resistance), plus antistatic wires

**COVER:** Black Chemivic<sup>™</sup> synthetic rubber RMA Class B (Medium-High Oil Resistance)

**REINFORCEMENT:** Spiral-plied synthetic fabric (2"-4": 2 ply; 6": 4 ply), plus grounding wires

TEMPERATURE: -35°F to 180°F (-37°C to 82°C)

PACKAGING: 100' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Plicord® Fuel Discharge

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock Cam & Groove Fittings with this product.

See the Coupling Systems information pages at the back of the catalog.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 543-331

#### PLICORD® FUEL DISCHARGE

| ID   |       | NOM. OD |       | MAX | . WP | WEIGHT  |        |  |
|------|-------|---------|-------|-----|------|---------|--------|--|
| in.  | mm.   | in.     | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 3/4  | 19.1  | 1.21    | 30.7  | 150 | 1.03 | 0.42    | 0.63   |  |
| 1    | 25.4  | 1.46    | 37.1  | 150 | 1.03 | 0.52    | 0.77   |  |
| 11/4 | 31.8  | 1.72    | 43.7  | 150 | 1.03 | 0.63    | 0.94   |  |
| 1½   | 38.1  | 1.95    | 49.5  | 150 | 1.03 | 0.73    | 1.09   |  |
| 2    | 50.8  | 2.49    | 63.3  | 150 | 1.03 | 0.98    | 1.46   |  |
| 2½   | 63.5  | 2.98    | 75.7  | 150 | 1.03 | 1.19    | 1.77   |  |
| 3    | 76.2  | 3.50    | 88.9  | 150 | 1.03 | 1.45    | 2.16   |  |
| 3½   | 88.9  | 4.04    | 102.6 | 150 | 1.03 | 1.70    | 2.53   |  |
| 4    | 101.6 | 4.52    | 114.8 | 150 | 1.03 | 1.91    | 2.84   |  |
| 6    | 152.4 | 6.63    | 168.4 | 150 | 1.03 | 3.41    | 5.07   |  |



## PLICORD® EXTREMEFLEX™ PETROLEUM TRANSFER





**Product Specifications** 

**APPLICATION:** An extremely flexible and lightweight drop hose for use in tank truck and in-plant operation to

transfer diesel, ethanol, gasoline, oil and petroleum base products up to 60% aromatic content.

Corrugated construction for lower drag coefficient and superior abrasion resistance.

CONSTRUCTION

TUBE: Black Nitrile synthetic rubber (Class A oil resistance)

**COVER:** Black Chemivic<sup>™</sup> synthetic (corrugated)

**REINFORCEMENT:** Spiral plied synthetic fabric with wire helix

**TEMPERATURE:** -40°F to 200°F (-40°C to 93°C)

**PACKAGING:** 100' Lengths, coiled and bagel packed

**BRANDING (SPIRAL):** Example: Plicord® ExtremeFlex™ Petroleum Transfer

**COUPLINGS:** Use Goodyear Engineered Products Insta-Lock™ Cam & Groove Fittings.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 543-216

#### PLICORD® EXTREMEFLEX™ PETROLEUM TRANSFER

| 1   | ID NOM. OD |      | MAX   | MAX. WP |      | BEND RADIUS |        | VACUUM HG |     | WEIGHT  |        |
|-----|------------|------|-------|---------|------|-------------|--------|-----------|-----|---------|--------|
| in. | mm.        | in.  | mm.   | psi     | Мра  | in.         | mm.    | in.       | mm. | lb./ft. | kg./m. |
| 3/4 | 19         | 1.20 | 30.5  | 250     | 1.72 | .75         | 19.05  | 29        | 737 | 0.44    | 0.65   |
| 1   | 25         | 1.45 | 36.8  | 250     | 1.72 | 1           | 25.40  | 29        | 737 | 0.55    | 0.81   |
| 1½  | 38         | 1.91 | 48.5  | 250     | 1.72 | 1.5         | 38.10  | 29        | 737 | 0.73    | 1.08   |
| 2   | 51         | 2.43 | 61.8  | 250     | 1.72 | 2           | 50.80  | 29        | 737 | 0.96    | 1.43   |
| 2½  | 63         | 3.00 | 76.1  | 200     | 1.37 | 2.5         | 63.50  | 29        | 737 | 1.41    | 2.10   |
| 3   | 76         | 3.50 | 88.8  | 200     | 1.37 | 3           | 76.20  | 29        | 737 | 1.69    | 2.51   |
| 4   | 102        | 4.56 | 115.7 | 150     | 1.03 | 4           | 101.60 | 29        | 737 | 2.42    | 3.61   |



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

**VACUUM** 

**VEYANCE** 

Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

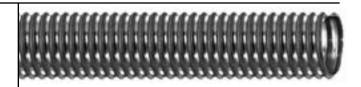
WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# SPIRAFLEX® POLYURETHANE VAPOR RECOVERY



### **Product Specifications**

**APPLICATION:** For the recovery of gasoline vapors in tank truck loading at bulk terminals and in tank truck

unloading at service stations.

CONSTRUCTION TUBE:

: Transparent polyurethane

**COVER:** Transparent polyurethane

REINFORCEMENT: Red rigid Pliovic® helix, available with static wire placed between the tube and cover

**TEMPERATURE:** -30°F to 150°F (-34°C to 66°C)

PACKAGING: 100' lengths, coiled and polywrapped

BRANDING: Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 586-465 (without static wire) 586-468 (static wire)

#### SPIRAFLEX® POLYURETHANE VAPOR RECOVERY

| I   | ID    |      | NOM. OD |     | MAX. WP |     | BEND RADIUS |         | WEIGHT |  |
|-----|-------|------|---------|-----|---------|-----|-------------|---------|--------|--|
| in. | mm.   | in.  | mm.     | psi | Мра     | in. | mm.         | lb./ft. | kg./m. |  |
| 2   | 50.8  | 2.47 | 62.7    | 30  | 0.21    | 3   | 76          | 0.57    | 0.85   |  |
| 3   | 76.2  | 3.41 | 86.6    | 20  | 0.14    | 4   | 102         | 0.68    | 1.01   |  |
| 4   | 101.6 | 4.51 | 114.6   | 15  | 0.10    | 7   | 178         | 0.98    | 1.46   |  |



## PYROFLEX® HOT TAR & ASPHALT II



### **Product Specifications**

**APPLICATION:** For the transfer of high temperature petroleum-based materials such as tar, asphalt and hot oils.

It is suitable for suction and discharge service on tank trucks, tank cars or at bulk stations. Heat

resistant tube and Flexten reinforcement. (Hot oils only rated to 200°F)

CONSTRUCTION
TUBE: Black Nitrile (special heat resistant) synthetic rubber RMA Class A (High Oil Resistance)

**COVER:** Black Wingprene® synthetic rubber RMA Class A (High Oil Resistance) with spiral red stripe

**REINFORCEMENT:** Spiral-plied Flexten® with wire helix

**TEMPERATURE:** -25°F to 350°F (-32°C to 177°C)

PACKAGING: 100' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Pyroflex® Hot Tar and Asphalt II 150 psi

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 543-118

#### **PYROFLEX®** HOT TAR & ASPHALT II

| 1   | ID NOM. OD MAX. W |      | MAX. WP BEND RADIUS |     | VACUUM HG |     | WEIGHT |     |     |         |        |
|-----|-------------------|------|---------------------|-----|-----------|-----|--------|-----|-----|---------|--------|
| in. | mm.               | in.  | mm.                 | psi | Мра       | in. | mm.    | in. | mm. | lb./ft. | kg./m. |
| 1½  | 38.1              | 2.08 | 52.8                | 150 | 1.03      | 4   | 102    | 29  | 737 | 1.04    | 1.55   |
| 2   | 50.8              | 2.60 | 66.0                | 150 | 1.03      | 5   | 127    | 29  | 737 | 1.33    | 1.98   |
| 2½  | 63.5              | 3.09 | 78.6                | 150 | 1.03      | 6   | 152    | 29  | 737 | 1.67    | 2.49   |
| 3   | 76.2              | 3.65 | 92.8                | 150 | 1.03      | 7   | 178    | 29  | 737 | 2.23    | 3.32   |
| 4   | 101.6             | 4.68 | 118.8               | 150 | 1.03      | 10  | 254    | 29  | 737 | 2.91    | 4.34   |

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Vashdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PYROFLEX® HOT TAR WAND



### **Product Specifications**

**APPLICATION:** A high quality wand hose used in asphalt crack filling applicator and dispensing service.

CONSTRUCTION

**TUBE:** Black Nitrile (special heat resistance)

**COVER:** Black Wingprene® (wrapped finish) flame-retardant

**REINFORCEMENT:** Spiral-plied (2) steel wire

**TEMPERATURE:** -25°F to 350°F (-32°C to 177°C)

PACKAGING: 100' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Pyroflex® Hot Tar Wand Hose

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 543-632

#### **PYROFLEX®** HOT TAR WAND

| ID  |      | NOM. OD |      | MAX | . WP | WEIGHT  |        |  |
|-----|------|---------|------|-----|------|---------|--------|--|
| in. | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |  |
| 3/4 | 19.1 | 1.33    | 33.8 | 300 | 2.07 | 0.64    | 0.95   |  |
| 1   | 25.4 | 1.61    | 40.9 | 300 | 2.07 | 0.84    | 1.25   |  |
| 1½  | 38.1 | 2.11    | 53.6 | 300 | 2.07 | 1.15    | 1.71   |  |



| NOTES                          | MULTIPURPOSE<br>General Purpose                                 |
|--------------------------------|---|
|                                | Heavy Duty Push-on  |
|                                | CHEMICAL<br>TRANSFER  |
|                                | CLEANING EQUIPMENT  |
|                                | FOOD<br>Transfer<br>Washdown                                    |
|                                | MARINE  |
|                                | MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete     |
|                                | MINING  |
|                                | PETROLEUM<br>Aircraft Fueling<br>Dispensing<br>Dock<br>Transfer |
|                                | SPRAY   |
|                                | STEAM   |
|                                | VACUUM  |
|                                | VEYANCE   |
|                                | WATER Discharge Suction & Discharge Washdown                    |
|                                | WELDING   |
|                                | COUPLING<br>SYSTEMS   |
| GOOD YEAR. ENGINEERED PRODUCTS | APPENDIX  |

AIR &

## SPRAY

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

#### **SPRAY**

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## **SPRAY**



|                                 | Page | Rubber | Thermoplastic | Textile | Wire | Temp Range   | MSHA |
|---------------------------------|------|--------|---------------|---------|------|--------------|------|
| Mine Spray                      | 136  | Yes    |               |         | Yes  | 0°F to 200°F | Yes  |
| NR Spray                        | 197  | Yes    |               | Yes     |      | 0°F to 190°F |      |
| Pliovic® Ag Spray (1800 & 2400) | 198  |        | Yes           | Yes     |      | 0°F to 158°F |      |



## NR SPRAY



#### **Product Specifications**

**APPLICATION:** NR Spray is a premium-quality, all-purpose hose for handling a variety of applications such as

paint spray or agricultural spray. Will handle spraying paints, automotive finish paints, lacquers,

thinners, turpentine, air, oil and a large variety of solvents and chemicals.

CONSTRUCTION

TUBE: Nylon, silicone-free

**COVER:** Black synthetic rubber, RMA Class B (Medium Oil Resistance)

**REINFORCEMENT:** Braided synthetic yarn (1/4" and 3/8"-1 braid) (1/2", 3/4" and 1"-2 braid)

**TEMPERATURE**: 0°F to 190°F (-18°C to 88°C)

PACKAGING: 500' reel, maximum 3 pieces, 50' minimum

**BRANDING:** Example: Goodyear® 1/4" IBD NR Spray. Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 536-290

**NR SPRAY** 

| ID   |      | NOM. OD |      | MAX | . WP | WEIGHT  |        |  |
|------|------|---------|------|-----|------|---------|--------|--|
| in.  | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |  |
| 1/4  | 6.4  | 0.49    | 12.4 | 750 | 5.17 | 0.08    | 0.12   |  |
| 5/16 | 7.9  | 0.61    | 15.5 | 750 | 5.17 | 0.13    | 0.19   |  |
| 3/8  | 9.5  | 0.70    | 17.8 | 750 | 5.17 | 0.15    | 0.22   |  |
| 1/2  | 12.7 | 0.87    | 22.1 | 750 | 5.17 | 0.22    | 0.33   |  |
| 5/8  | 15.9 | 1.05    | 26.7 | 750 | 5.17 | 0.31    | 0.46   |  |
| 3/4  | 19.1 | 1.19    | 30.2 | 750 | 5.17 | 0.36    | 0.54   |  |
| 1    | 25.4 | 1.51    | 38.4 | 750 | 5.17 | 0.54    | 0.80   |  |

AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

#### **SPRAY**

STEAM

VACUUM

**VEYANCE** 

ischarge

Suction & Discharge Washdown

WELDING

COUPLING SYSTEMS



## SPRAY

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

#### **SPRAY**

STEAM

VACUUM

**VEYANCE** 

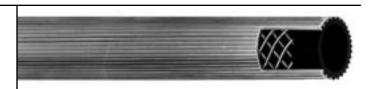
WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLIOVIC® AG SPRAY



#### **Product Specifications**

APPLICATION: A lightweight, economical high-pressure hose for carrying air, water and many spray solutions in

agricultural applications: including Xylene up to 10% concentration. Safety factor 3:1.

CONSTRUCTION

TUBE: Pliovic® RMA Class B (Medium Oil Resistance)

**COVER:** Orange or green Pliovic® (ribbed finish)

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE:** 0°F to 158°F (-18°C to 70°C)

PACKAGING: 300' length, coiled and polywrapped

**BRANDING:** Example: Goodyear® Pliovic® 1800 Spray 1/2" (12.7 mm). Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

### PLIOVIC® 1800 (ORANGE)

**ORDER CODES:** 540-211

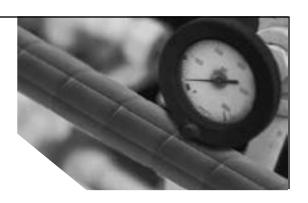
| ID  |      | NOM. OD |      | MAX | . WP | WEIGHT  |        |  |
|-----|------|---------|------|-----|------|---------|--------|--|
| in. | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |  |
| 3/8 | 9.5  | 0.69    | 17.5 | 600 | 4.14 | 0.14    | 0.21   |  |
| 1/2 | 12.7 | 0.78    | 19.8 | 600 | 4.14 | 0.19    | 0.28   |  |
| 3/4 | 19.1 | 1.10    | 27.9 | 600 | 4.14 | 0.28    | 0.42   |  |

PLIOVIC® 2400 (GREEN) ORDER CODES: 540-208

| ID  |      | NOM. OD |      | MAX | . WP | WEIGHT  |        |  |
|-----|------|---------|------|-----|------|---------|--------|--|
| in. | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |  |
| 3/8 | 9.5  | 0.70    | 17.8 | 800 | 5.52 | 0.14    | 0.21   |  |
| 1/2 | 12.7 | 0.85    | 21.6 | 800 | 5.52 | 0.20    | 0.30   |  |
| 3/4 | 19.1 | 1.10    | 27.9 | 800 | 5.52 | 0.28    | 0.42   |  |



## **STEAM**



|                              | Page | Temp Range     | Smooth Cover | Wrapped Cover | Colors    | Crimped Assembly |
|------------------------------|------|----------------|--------------|---------------|-----------|------------------|
| Crimped Steam Assembly       | 203  | -40°F to 450°F | Yes          | Yes           | Red/Black | Yes              |
| Flexsteel® 250 CB Steam      | 202  | -40°F to 425°F |              | Yes           | Red/Black |                  |
| Flexsteel® 250 Steam         | 200  | -40°F to 450°F | Yes          | Yes           | Red/Black | Yes              |
| Flexsteel® 250 EPDM-20       | 201  | -40°F to 450°F |              | Yes           | Red       | Yes              |
| Heavy Duty Steam Pile Driver | 205  | -40°F to 406°F |              | Yes           | Red/Black |                  |
| MIL-DTL-29210E Steam         | 206  | 0°F to 406°F   |              | Yes           | Black     |                  |
| Plicord® 250 Steam           | 204  | 0°F to 406°F   |              | Yes           | Red/Black |                  |

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer

Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

#### **STEAM**

VACUUM

VEYANCE

WATER

Discharge Suction & Discharge Washdown

WELDING

COUPLING SYSTEMS



## STEAM

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

#### STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## FLEXSTEEL® 250 STEAM



## **Product Specifications**

**APPLICATION:** For cleaning, heat control, fire prevention, pumping, thawing, blow-out service, steam pumps

and hoists in open-end or permanent installation operations. It is used in refineries, shipyards, chemical plants, steel mills, foundries and heavy industrial applications where high strength is

required and where severe environmental conditions are encountered.

CONSTRUCTION

**TUBE:** Pyrosyn® synthetic rubber

COVER: Black or red Pyrosyn finish, pin-pricked

**REINFORCEMENT:** Braided steel wire (3/4" and 1" have 2 steel wire braids)

TEMPERATURE: -40°F to 450°F (-40°C to 232°C)

**PACKAGING:** Reels or 50' cut lengths (1/2"-4 per box, 3/4"-3 per box, 1"-2 per box)

BRANDING: Example: Goodyear® Flexsteel® 250 Steam Max WP 250 PSI. Made in USA

COUPLINGS: See Goodyear Engineered Products Hose Assembly Manual for most current crimp solutions.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 539-070 (black) 539-076 (red) 539-470 (black wrapped)\* 539-476 (red wrapped)\*

#### FLEXSTEEL® 250 STEAM

| ID  |      | NOM. OD |      | MAX | . WP | WEIGHT  |        |  |
|-----|------|---------|------|-----|------|---------|--------|--|
| in. | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |  |
| 1/2 | 12.7 | 1.06    | 26.9 | 250 | 1.72 | 0.45    | 0.67   |  |
| 3/4 | 19.1 | 1.28    | 32.5 | 250 | 1.72 | 0.56    | 0.83   |  |
| 1   | 25.4 | 1.63    | 41.4 | 250 | 1.72 | 0.91    | 1.35   |  |



## FLEXSTEEL® 250 EPDM-20



#### **Product Specifications**

**APPLICATION:** The Flexsteel® 250 EPDM-20 features the superior performance of Flexsteel 250 Steam hose

series enhanced with the increased safety factor of 20:1. This exceeds the RMA safety standard and makes steam operations more secure and user friendly. The hose has a maximum operating

pressure of 250 PSI with a temperature range of -40°F to 450°F.

CONSTRUCTION

TUBE: Black Pyrosyn®, pin-pricked

COVER: Red Wrapped Pyrosyn®, pin-pricked

**REINFORCEMENT:** (2) braid wire

**TEMPERATURE:** -40°F to 450°F (-40°C to 232°C)

PACKAGING: Bulk, cut lengths, coupled assemblies

BRANDING (SPIRAL): Example: Goodyear® Flexsteel® 250 EPDM-20 Steam 250 PSI. Made in USA.

COUPLINGS: See Goodyear Engineered Products Hose Assembly Manual for most current crimp solutions.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 539-486

#### FLEXSTEEL® 250 EPDM-20

| ID  |      | NON  | 1. OD | MAX | . WP | WEIGHT  |        |  |
|-----|------|------|-------|-----|------|---------|--------|--|
| in. | mm.  | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 3/4 | 19.1 | 1.28 | 32.5  | 250 | 1.72 | 0.59    | 0.83   |  |

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

**STEAM** 

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



## STEAM

AIR & **MULTIPURPOSE** Heavy Duty

**CHEMICAL TRANSFER** 

**EQUIPMENT** 

FOOD Washdown

MARINE

MATERIAL HANDLING Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

#### **STEAM**

VACUUM

**VEYANCE** 

WATER Suction &

WELDING

COUPLING

**APPENDIX** 

## **FLEXSTEEL®** 250 CB STEAM



#### **Product Specifications**

APPLICATION: Used for cleaning, heat control, fire prevention, pumping, thawing, blowout service, steam pumps

and hoists in open-end or permanent installation operations. It is used in refineries, shipyards, chemical plants, steel mills, foundries and heavy industrial applications where high strength is

required and where severe environmental conditions are encountered.

CONSTRUCTION

TUBE:

Chlorobutyl synthetic rubber

COVER: Red or black Pyrosyn® synthetic rubber

REINFORCEMENT: Braided steel wire (3/4" and higher have 2 steel wire braids)

TEMPERATURE: -40°F to 425°F (-40°C to 218°C)

PACKAGING: Wrapped cover: 1/2" Four 50' exact length/box

3/4"-1" Three 50' exact length/box 11/4" - 2" One 50' exact length/box

BRANDING: Example: Goodyear® Flexsteel® 250 CB Steam Max WP 250 PSI. Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

| WF-WRAP | PED FINISH | ORDI | ER CODES: 1/2" | —1" 539-176 (red) | 1¼"–2" 581-1 | /6 (red) 1/2"—: | 1" 539-170 (black) |  |
|---------|------------|------|----------------|-------------------|--------------|-----------------|--------------------|--|
| I       | D          | NOM  | 1. OD          | MAX               | . WP         | WEIGHT          |                    |  |
| in.     | mm.        | in.  | mm.            | psi               | Мра          | lb./ft.         | kg./m.             |  |
| 1/2     | 12.7       | 1.00 | 25.4           | 250               | 1.72         | 0.40            | 0.60               |  |
| 3/4     | 19.1       | 1.31 | 33.3           | 250               | 1.72         | 0.64            | 0.95               |  |
| 1       | 25.4       | 1.56 | 39.6           | 250               | 1.72         | 0.77            | 1.15               |  |
| 11/4    | 31.8       | 1.75 | 44.5           | 250               | 1.72         | 1.06            | 1.58               |  |
| 1½      | 38.1       | 2.00 | 50.8           | 250               | 1.72         | 1.42            | 2.11               |  |
| 2       | 50.8       | 2.50 | 63.5           | 250               | 1.72         | 1.71            | 2.54               |  |



## CRIMPED STEAM ASSEMBLY



#### **Product Specifications**

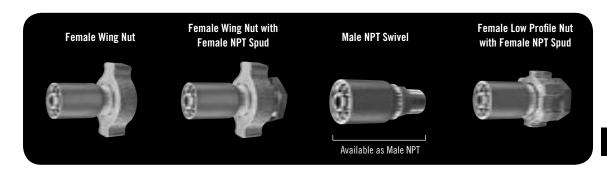
APPLICATION:

Coupling assembly crimps permanently onto hose; forms a tight crimp that reduces leaks and eliminates bulky bolt clamps while reducing potential for damage from snagging on personnel or property.

#### RECOMMENDED CRIMP DIAMETERS FOR GOODYEAR ENGINEERED PRODUCTS BRANDED STEAM HOSE

| HOSE<br>Description          | HOSE<br>Product | HOSE<br>ID | FEMALE<br>GROUND JOINT<br>LOW PROFILE | FEMALE<br>GROUND<br>JOINT WING | MALE<br>NPT | MALE NPT<br>SWIVEL | FEMALE<br>SPUD | CRIMP<br>DIA. | ENGI<br>PRO<br>PERMA | DDYEAR<br>INEERED<br>DDUCTS<br>A-CRIMP™ |
|------------------------------|-----------------|------------|---------------------------------------|--------------------------------|-------------|--------------------|----------------|---------------|----------------------|---|
| DESORII HOR                  | CODE            | טו         | UNIT                                  | NUT                            | MI I        | SWIVEL             |                | DIA.          | DIE<br>SET           | APPROX.<br>Setting                      |
| Flexsteel® 250 (Black)       | 539-070-024     | 3/4"       | RGJS-3V                               | GJS-3V                         | IMS-3V      | IMS-3VSW           | GFS-3          | 1.440"        | 34                   | 2.6                                     |
| Flexsteel® 250 (Red)         | 539-076-024     | 3/4"       | RGJS-3V                               | GJS-3V                         | IMS-3V      | IMS-3VSW           | GFS-3          | 1.440"        | 34                   | 2.6                                     |
| Flexsteel® 250 (Black)       | 539-070-032     | 1"         | RGJS-4V                               | GJS-4V                         | IMS-4V      | IMS-4VSW           | GFS-3          | 1.925"        | 45                   | 3.9                                     |
| Flexsteel® 250 (Red)         | 539-076-032     | 1"         | RGN-4                                 | GN-4                           | IMS-4G*     | N/A                | GFS-4          | 1.660"        | 41                   | 1.16                                    |
| Flexsteel® 250 (Red Wrapped) | 536-476-024     | 3/4"       | RGJS-3V                               | GJS-3V                         | IMS-3V      | IMS-3VSW           | GFS-3          | 1.440"        | 34                   | 2.6                                     |
| Flexsteel® 250 EPDM 20 (Red) | 539-486-024     | 3/4"       | RGJS-3V                               | GJS-3V                         | IMS-3V      | IMS-3VSW           | GFS-3          | 1.420"        | 34                   | 2.1                                     |

 $<sup>{}^\</sup>star \text{For the 2-piece skived fitting solution with SCF-4G ferrule, use GJS-4G NC stem for ground joint fittings. Skive length 1.555".}$ 



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

**STEAM** 

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



## STEAM

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

#### **STEAM**

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLICORD® 250 STEAM



#### **Product Specifications**

APPLICATION: A rugged construction used for all-around steam service in chemical plants, refineries, shipyards

and demanding industrial service. It is recommended for cleaning, thawing, blowout service,

steam pumps, hoists and other applications involving steam.

CONSTRUCTION

**TUBE:** Black Versigard® synthetic rubber

**COVER:** Black Versigard® synthetic rubber, also available in red cover with yellow brand for color coding

(wrapped impression)

**REINFORCEMENT:** Spiral-plied steel wire

**TEMPERATURE:** 0°F to 406°F (-18°C to 208°C)

**PACKAGING:** 50' lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Goodyear® Plicord® Steam 250 psi. Drain after use

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 549-060 (black) 549-061 (red)

#### PLICORD® 250 STEAM

| 1    | D    | NOM  | I. OD | MAX | . WP | WEIGHT  |        |  |
|------|------|------|-------|-----|------|---------|--------|--|
| in.  | mm.  | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 1/2  | 12.7 | 0.97 | 24.6  | 250 | 1.72 | 0.33    | 0.49   |  |
| 3/4  | 19.1 | 1.25 | 31.8  | 250 | 1.72 | 0.49    | 0.73   |  |
| 1    | 25.4 | 1.50 | 38.1  | 250 | 1.72 | 0.61    | 0.91   |  |
| 11/4 | 31.8 | 1.81 | 46.0  | 250 | 1.72 | 0.83    | 1.24   |  |
| 1½   | 38.1 | 2.09 | 53.1  | 250 | 1.72 | 1.03    | 1.53   |  |
| 2    | 50.8 | 2.78 | 70.6  | 250 | 1.72 | 1.88    | 2.80   |  |
| 2½   | 63.5 | 3.28 | 83.3  | 250 | 1.72 | 2.33    | 3.47   |  |
| 3    | 76.2 | 3.77 | 95.8  | 250 | 1.72 | 2.73    | 4.06   |  |



## **HEAVY DUTY STEAM** PILE DRIVER



#### **Product Specifications**

APPLICATION: Designed to withstand the toughest off-shore pile driving applications and offer long-lasting

service in on shore applications. A combination of the steam-resistant Versigard® tubing plus the steel Flexten® construction gives this hose the pliability and kinetic and crush

resistance required in this application.

CONSTRUCTION

Black Versigard® synthetic rubber TUBE:

COVER: Red or black Versigard® synthetic rubber

REINFORCEMENT: Brass-coated steel cord and Flexten® breakers

TEMPERATURE: -40°F to 406°F (-40°C to 205°C)

PACKAGING: 100' exact length, coiled and polywrapped

**BRANDING:** Example: Goodyear® H.D. Steam Pile Driver 250 psi WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 541-461 (black) 541-460 (red)

#### **HEAVY DUTY STEAM PILE DRIVER**

| ID  |       | NOM. OD |       | MAX. WP |      | BEND I | RADIUS | WEIGHT  |        |  |
|-----|-------|---------|-------|---------|------|--------|--------|---------|--------|--|
| in. | mm.   | in.     | mm.   | psi     | Мра  | in.    | mm.    | lb./ft. | kg./m. |  |
| 2   | 50.8  | 3.19    | 81.0  | 250     | 1.72 | 16     | 406    | 3.27    | 4.87   |  |
| 3   | 76.2  | 4.29    | 109.0 | 250     | 1.72 | 24     | 610    | 4.90    | 7.29   |  |
| 4   | 101.6 | 5.63    | 143.0 | 250     | 1.72 | 32     | 813    | 9.07    | 13.50  |  |
| 6   | 152.4 | 7.66    | 194.6 | 250     | 1.72 | 48     | 1200   | 10.98   | 16.4   |  |

AIR & **MULTIPURPOSE** Heavy Duty

> **CHEMICAL** TRANSFER

**CLEANING EQUIPMENT** 

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Bulk Transfer

Cement & Concrete

MINING

**PETROLEUM** Dispensing Dock

**SPRAY** 

**STEAM** 

**VACUUM** 

**VEYANCE** 

Suction &

WELDING

COUPLING **SYSTEMS** 



## STFAM

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

**STEAM** 

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## MIL-DTL-29210E STEAM HOSE



#### Updates to new "E" specification



#### **Product Specifications**

APPLICATION:

Hose assembly for military applications (such as Navy shipyard use) in temporary services from docks or barges to ships. First Article-approved hose meeting the requirements of MIL-DTL-29210 rev. E. This specification covers metal-lined, wire-reinforced, rubber hose assemblies for conveyance of saturated steam.

Revision E update (key changes):

- Ozone and steam tests as part of conformance testing are required for 1st Article in rev. E
- Part or identifying number (PIN) is much more specific
- The branding requirements have been corrected to brand as MIL-DTL-29210 instead of MIL-PRF-29210C.

CONSTRUCTION

TUBE: EPDM

**COVER:** Black wrapped finish EPDM

**REINFORCEMENT:** 2 wire braids

**TEMPERATURE:** 0° to 406°F (-18°C to 208°C)

PACKAGING: 25' or 50' cut lengths

BRANDING: Goodyear® (Quarter/Year Date Code) MIL-DTL-29210 250 PSIG (1724 KPA {Gauge}) steam 29210E

**COUPLINGS:** End fittings and special stem design per MIL-DTL-29210E for use with stainless-steel metal liner.

Stainless-steel metal liner per MIL-DTL-29210E

**NON-STOCK/SIZES:** 34", 1", 114"\*, 11/2", 2" (\*in development)

**ORDER CODES:** 539-670

#### MIL-DTL-29210E STEAM HOSE

| ID           |       | 0     | D     | W   | IP .  | WEIGHT  |        |  |
|--------------|-------|-------|-------|-----|-------|---------|--------|--|
| in.          | mm.   | in.   | mm.   | psi | Мра   | lb./ft. | kg./m. |  |
| 3/4          | 19.05 | 1.315 | 33.40 | 250 | 1.723 | 0.61    | 0.91   |  |
| 1            | 25.4  | 1.61  | 40.89 | 250 | 1.723 | 0.82    | 1.22   |  |
| $1^{1}/_{2}$ | 38.1  | 2.12  | 53.85 | 250 | 1.723 | 1.22    | 1.82   |  |
| 2            | 50.8  | 2.71  | 68.83 | 250 | 1.723 | 1.80    | 2.68   |  |



## STEAM

| NOTES     | AIR & MULTIPURPOSE<br>General Purpose                       |
|-----------|---|
|           | Heavy Duty<br>Push-on                                       |
|           | CHEMICAL<br>TRANSFER  |
|           | CLEANING EQUIPMENT  |
|           | FOOD<br>Transfer<br>Washdown                                |
|           | MARINE  |
|           | MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete |
|           | MINING  |
|           | PETROLEUM Aircraft Fueling Dispensing Dock Transfer         |
|           | SPRAY   |
|           | STEAM   |
|           | VACUUM  |
|           | VEYANCE   |
|           | WATER Discharge Suction & Discharge Washdown                |
|           | WELDING   |
|           | COUPLING SYSTEMS  |
| COOD VEAD | APPENDIX  |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

#### **VACUUM**

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## **VACUUM**



|                               | Page | Rubber | Thermoplastic | Clear | Corrugated Cover | Lightweight | Temp Range     |
|-------------------------------|------|--------|---------------|-------|------------------|-------------|----------------|
| Arvac <sup>™</sup> SW         | 105  |        | Yes           |       | Yes              | Yes         | -40°F to 158°F |
| Plicord® HD Industrial Vacuum | 212  | Yes    |               |       | Yes              |             | -40°F to 180°F |
| Plicord® Vacuum (HD & LW)     | 213  | Yes    |               |       | Yes              | Yes         | -25°F to 180°F |
| Spiraflex® Ducting            | 210  |        | Yes           |       | Yes              | Yes         | 0°F to 150°F   |
| Spiraflex® Grassvac™          | 209  |        | Yes           | Yes   | Yes              | Yes         | 0°F to 158°F   |
| Spiraflex® Vacuum             | 211  |        | Yes           |       | Yes              | Yes         | 0°F to 158°F   |
| Spirathane™ HD                | 117  |        | Yes           |       | Yes              | Yes         | 0°F to 158°F   |
| Spirathane™ LD                | 119  |        | Yes           | Yes   | Yes              | Yes         | 0°F to 158°F   |
| Spirathane <sup>™</sup> PT    | 118  |        | Yes           | Yes   | Yes              | Yes         | 0°F to 158°F   |



## SPIRAFLEX® GRASSVAC™



AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL

HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

#### **Product Specifications**

APPLICATION: For lawn, leaf, mulch and yard waste collection. It is also suitable for dust control, ventilation,

and ducting.

CONSTRUCTION TUBE:

Clear Pliovic®

**REINFORCEMENT:** Black rigid, high-density Pliovic helix

**TEMPERATURE:** 0°F to 158°F (-18°C to 70°C)

**PACKAGING:** 4–6" 100' lengths, coiled and polywrapped

7–8" 50' lengths, coiled and polywrapped

BRANDING: Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: Available in all black construction.

ORDER CODES: 586-429 (clear web, black helix)

#### SPIRAFLEX® GRASSVAC™

| ID  |       | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|-----|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
| in. | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| 4   | 101.6 | 4.46    | 113.3 | 15      | 0.10 | 4           | 102 | 15        | 381 | 0.71    | 1.06   |
| 5   | 127.0 | 5.55    | 141.0 | 15      | 0.10 | 7           | 178 | 15        | 381 | 1.07    | 1.59   |
| 6   | 152.4 | 6.56    | 166.6 | 10      | 0.07 | 7           | 178 | 15        | 381 | 1.43    | 2.13   |
| 7   | 177.8 | 7.63    | 193.8 | 10      | 0.07 | 9           | 229 | 15        | 381 | 1.75    | 2.60   |
| 8   | 203.2 | 8.66    | 220.0 | 10      | 0.07 | 9           | 229 | 15        | 381 | 2.06    | 3.07   |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

**STEAM** 

#### **VACUUM**

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## SPIRAFLEX® DUCTING



#### **Product Specifications**

**APPLICATION:** Versatile enough for use in leaf collection machines, manhole blowers and air conditioning

and heating applications, as well as for air ducting and pollution control devices. Do not use

Spiraflex® Ducting for pressure service.

CONSTRUCTION

TUBE:

Metallic green Pliovic® synthetic compound

**REINFORCEMENT:** Rigid white high-density Pliovic® helix

**TEMPERATURE:** 0°F to 150°F (-18°C to 66°C)

**PACKAGING:** 1"-6" 100' lengths, coiled and polywrapped

8" 30' lengths, polywrapped

**BRANDING:** Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

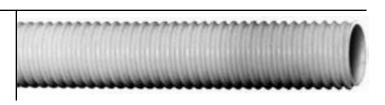
ORDER CODES: 586-408

#### SPIRAFLEX® DUCTING

| I    | D     | NOM  | I. OD | MAX | . WP | BEND I | RADIUS | WEIGHT  |        |  |
|------|-------|------|-------|-----|------|--------|--------|---------|--------|--|
| in.  | mm.   | in.  | mm.   | psi | Мра  | in.    | mm.    | lb./ft. | kg./m. |  |
| 1    | 25.4  | 1.21 | 30.7  | 2   | 33   | 5      | 127    | 0.13    | 0.19   |  |
| 11/4 | 31.8  | 1.50 | 38.1  | 2   | 51   | 5      | 127    | 0.18    | 0.27   |  |
| 1½   | 38.1  | 1.74 | 44.2  | 2   | 57   | 5      | 127    | 0.22    | 0.33   |  |
| 2    | 50.8  | 2.30 | 58.4  | 3   | 76   | 5      | 127    | 0.28    | 0.42   |  |
| 2½   | 63.5  | 2.80 | 71.1  | 4   | 102  | 5      | 127    | 0.31    | 0.46   |  |
| 3    | 76.2  | 3.40 | 86.4  | 7   | 160  | 5      | 127    | 0.53    | 0.79   |  |
| 4    | 101.6 | 4.44 | 112.8 | 8   | 191  | 5      | 127    | 0.60    | 0.89   |  |
| 5    | 127.0 | 5.50 | 139.7 | 9   | 229  | 5      | 127    | 0.90    | 1.34   |  |
| 6    | 152.4 | 6.46 | 164.1 | 10  | 254  | 5      | 127    | 1.04    | 1.55   |  |
| 8    | 203.2 | 8.52 | 216.4 | 12  | 305  | 5      | 127    | 1.60    | 2.38   |  |



## SPIRAFLEX® VACUUM



**Product Specifications** 

APPLICATION: Spiraflex® Vacuum hose is for dust collection and exhaust transmission where airborne

pollutants, fumes and odors are a major problem.

CONSTRUCTION

TUBE: White Pliovic® compound

**REINFORCEMENT:** Rigid white high-density Pliovic® helix

**TEMPERATURE**: 0°F to 158°F (-18°C to 70°C)

**PACKAGING:** 1"-4" 100' lengths, coiled and polywrapped

5"-6" 30' lengths, coiled and polywrapped

BRANDING: Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 586-403

ONDER CODES: 500-40

SPIRAFLEX® VACUUM

| ı | - 1  | D     | NOM. OD |       | MAX. WP |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT  |        |
|---|------|-------|---------|-------|---------|------|-------------|-----|-----------|-----|---------|--------|
|   | in.  | mm.   | in.     | mm.   | psi     | Мра  | in.         | mm. | in.       | mm. | lb./ft. | kg./m. |
| _ | 1    | 25.4  | 1.22    | 31.0  | 37      | 0.26 | 3           | 64  | 29        | 737 | 0.13    | 0.19   |
|   | 11/4 | 31.8  | 1.50    | 38.1  | 37      | 0.26 | 4           | 84  | 29        | 737 | 0.24    | 0.36   |
|   | 1½   | 38.1  | 1.76    | 44.7  | 34      | 0.23 | 4           | 97  | 29        | 737 | 0.29    | 0.43   |
|   | 2    | 50.8  | 2.35    | 59.7  | 30      | 0.21 | 6           | 140 | 29        | 737 | 0.45    | 0.67   |
|   | 2½   | 63.5  | 2.87    | 72.9  | 30      | 0.21 | 7           | 178 | 29        | 737 | 0.61    | 0.91   |
|   | 3    | 76.2  | 3.42    | 86.9  | 30      | 0.21 | 8           | 203 | 29        | 737 | 0.80    | 1.19   |
|   | 4    | 101.6 | 4.53    | 115.1 | 27      | 0.19 | 14          | 356 | 15        | 381 | 1.13    | 1.68   |
|   | 5    | 127.0 | 5.50    | 139.7 | 25      | 0.17 | 20          | 508 | 10        | 254 | 1.07    | 1.59   |
| _ | 6    | 152.4 | 6.59    | 167.4 | 20      | 0.14 | 25          | 635 | 10        | 254 | 2.05    | 3.05   |

AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Vashdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

**STEAM** 

#### **VACUUM**

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLICORD® HD INDUSTRIAL VACUUM



### **Product Specifications**

APPLICATION: For handling exhaust acid fumes as well as abrasive dust from metal, rock, marble and wood

grinding machines.

CONSTRUCTION
TUBE: 3/16" Gauge Tan Pureten™ rubber

**COVER:** Black Plioflex® synthetic rubber (corrugated)

**REINFORCEMENT:** Spiral-plied synthetic fabric with double wire helix

**TEMPERATURE:** -40°F to 180°F (-40°C to 82°C)

PACKAGING: Polywrapped

BRANDING (SPIRAL): Example: Goodyear.® Made in Canada

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** Custom lengths available. Available with Black Pureten™

**ORDER CODES:** Tan Pureten: 549-222 (2"-6%") 541-222 (7"-123/4")

#### PLICORD® HD INDUSTRIAL VACUUM

| ı    | D     | NOM   | 1. OD | MAX | . WP | BEND I | RADIUS | VACUI | JM HG | WEIGHT  |        |
|------|-------|-------|-------|-----|------|--------|--------|-------|-------|---------|--------|
| in.  | mm.   | in.   | mm.   | psi | Мра  | in.    | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 2    | 50.8  | 2.67  | 67.8  | 75  | 0.52 | 6      | 152    | 29    | 737   | 1.30    | 1.93   |
| 23/8 | 69.9  | 3.04  | 77.2  | 75  | 0.52 | 7      | 178    | 29    | 737   | 1.51    | 2.25   |
| 21/2 | 63.5  | 3.17  | 80.5  | 75  | 0.52 | 8      | 203    | 29    | 737   | 1.70    | 2.53   |
| 3    | 76.2  | 3.73  | 94.7  | 50  | 0.34 | 9      | 229    | 29    | 737   | 2.27    | 3.38   |
| 31/2 | 88.9  | 4.28  | 108.7 | 50  | 0.34 | 11     | 279    | 29    | 737   | 2.63    | 3.91   |
| 4    | 101.6 | 4.76  | 120.9 | 50  | 0.34 | 12     | 305    | 29    | 737   | 3.11    | 4.63   |
| 41/2 | 114.3 | 5.26  | 133.6 | 50  | 0.34 | 14     | 356    | 29    | 737   | 3.45    | 5.13   |
| 5    | 127.0 | 5.80  | 147.3 | 35  | 0.24 | 15     | 381    | 29    | 737   | 4.29    | 6.38   |
| 6    | 152.4 | 6.80  | 172.7 | 35  | 0.24 | 18     | 457    | 29    | 737   | 5.07    | 7.54   |
| 65/8 | 168.3 | 7.44  | 189.0 | 35  | 0.24 | 20     | 508    | 29    | 737   | 5.78    | 8.60   |
| 7    | 177.8 | 7.81  | 198.4 | 35  | 0.24 | 21     | 533    | 29    | 737   | 6.08    | 9.06   |
| 8    | 203.2 | 8.87  | 225.3 | 35  | 0.24 | 24     | 610    | 29    | 737   | 7.29    | 10.86  |
| 85/8 | 219.1 | 9.48  | 240.8 | 35  | 0.24 | 26     | 660    | 29    | 737   | 8.39    | 12.50  |
| 10   | 254.0 | 10.87 | 276.1 | 35  | 0.24 | 32     | 813    | 29    | 737   | 9.67    | 14.41  |
| 12   | 304.8 | 12.91 | 327.9 | 35  | 0.24 | 39     | 991    | 29    | 737   | 11.81   | 17.60  |
| 12¾  | 323.8 | 13.69 | 347.7 | 35  | 0.24 | 39     | 991    | 29    | 737   | 12.69   | 18.91  |



## PLICORD® VACUUM



General Purpose Heavy Duty Push-on

**MULTIPURPOSE** 

CHEMICAL TRANSFER

AIR &

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VEYANCE

**VACUUM** 

WALER Discharge Suction &

Suction & Discharge Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **Product Specifications**

**APPLICATION:** Heavy-duty construction for handling abrasive particles from metal, rock and marble

grinding machines under vacuum. Lightweight construction used to exhaust fumes and abrasive dust from woodworking machines, metal, rock, granite and similar processing

quipment.

CONSTRUCTION

TUBE: Black Tufsyn® synthetic rubber (static dissipating/static conductive)

**COVER:** Black Plioflex® synthetic rubber (corrugated)

**REINFORCEMENT:** Spiral-plied synthetic fabric with wire helix

**TEMPERATURE:** -25°F to 180°F (-32°C to 82°C)

**BRANDING (SPIRAL):** Example: Goodyear® Plicord® HD Vacuum

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

PLICORD® HD VACUUM

**ORDER CODES:** 549-208 (6" and below) 541-208 (8" ID)

ORDER CODES: 549-207

| ID   |       | NOM. OD |       | BEND RADIUS |      | VACUUM HG |     | WEIGHT  |        |
|------|-------|---------|-------|-------------|------|-----------|-----|---------|--------|
| in.  | mm.   | in.     | mm.   | in.         | mm.  | in.       | mm. | lb./ft. | kg./m. |
| 1½   | 38.1  | 1.95    | 49.5  | 6           | 152  | 29        | 737 | 0.77    | 1.15   |
| 2    | 50.8  | 2.46    | 62.5  | 8           | 203  | 29        | 737 | 0.95    | 1.41   |
| 21/2 | 63.5  | 3.02    | 76.7  | 10          | 254  | 29        | 737 | 1.39    | 2.07   |
| 3    | 76.2  | 3.70    | 94.0  | 12          | 305  | 29        | 737 | 2.25    | 3.35   |
| 4    | 101.6 | 4.79    | 121.7 | 16          | 406  | 29        | 737 | 3.34    | 4.97   |
| 6    | 152.4 | 6.80    | 172.7 | 36          | 914  | 29        | 737 | 5.10    | 7.59   |
| 8    | 203.2 | 9.20    | 233.7 | 48          | 1219 | 29        | 737 | 7.53    | 11.21  |

PLICORD® LW VACUUM (LIGHTWEIGHT CONSTRUCTION)

| ID |     | NOM. OD |      | BEND RADIUS |     | VACUUM HG |     | WEIGHT |         |        |
|----|-----|---------|------|-------------|-----|-----------|-----|--------|---------|--------|
| I  | in. | mm.     | in.  | mm.         | in. | mm.       | in. | mm.    | lb./ft. | kg./m. |
|    | 1½  | 38.1    | 1.82 | 46.2        | 6   | 152       | 29  | 737    | 0.59    | 0.88   |
|    | 2   | 50.8    | 2.33 | 59.2        | 8   | 203       | 29  | 737    | 0.70    | 1.04   |
|    | 2½  | 63.5    | 2.84 | 72.1        | 10  | 254       | 29  | 737    | 0.97    | 1.44   |
|    | 3   | 76.2    | 3.33 | 84.6        | 12  | 305       | 29  | 737    | 1.15    | 1.71   |
|    | 4   | 101.6   | 4.93 | 125.2       | 16  | 406       | 29  | 737    | 1.85    | 2.75   |
|    | 6   | 152.4   | 6.47 | 164.3       | 24  | 610       | 29  | 737    | 3.41    | 5.07   |



| AIR & MULTIPURPOSE                                  | NOTES |  |  |  |  |  |
|---|-------|--|--|--|--|--|
| General Purpose<br>Heavy Duty<br>Push-on            |       |  |  |  |  |  |
| CHEMICAL<br>TRANSFER                                |       |  |  |  |  |  |
| CLEANING<br>EQUIPMENT                               |       |  |  |  |  |  |
| FOOD<br>Transfer<br>Washdown                        |       |  |  |  |  |  |
| MARINE  |       |  |  |  |  |  |
| MATERIAL<br>HANDLING<br>Abrasives<br>Bulk Transfer  |       |  |  |  |  |  |
| Cement & Concrete                                   |       |  |  |  |  |  |
| MINING  |       |  |  |  |  |  |
| PETROLEUM Aircraft Fueling Dispensing Dock Transfer |       |  |  |  |  |  |
|   |       |  |  |  |  |  |
| SPRAY   |       |  |  |  |  |  |
| STEAM   |       |  |  |  |  |  |
| VACUUM  |       |  |  |  |  |  |
| VEYANCE   |       |  |  |  |  |  |
| WATER Discharge Suction & Discharge Washdown        |       |  |  |  |  |  |
| WELDING   |       |  |  |  |  |  |
| COUPLING<br>SYSTEMS                                 |       |  |  |  |  |  |



# VEYANCE BRANDED PRODUCTS



|                               | Page |
|-------------------------------|------|
| LPG Delivery Pro <sup>™</sup> | 216  |

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

> CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

### **VEYANCE**

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

## **VEYANCE**

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

#### **VEYANCE**

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## LPG DELIVERY PRO™



# NEW



# **Product Specifications**

APPLICATION: LPG Delivery Pro™ is for residential and commercial delivery/transfer of liquid propane gas —

the only UL listed LPG bobtail transfer assembly in the market. It features premium braided construction (1" ID and larger), excellent cold weather flexibility, a smooth cover for low drag

resistance and low tube extraction to reduce contamination.

Not for LP appliances or other consumer applications.

CONSTRUCTION

TUBE: Nitrile

**COVER:** Synthetic rubber

**REINFORCEMENT:** 1/2" and 3/4" Textile spiral

1" and 2" Textile braid

**TEMPERATURE:** -40°F to 180°F (-40°C to 82°C)

**PACKAGING:** Available in coupled assemblies only

**BRANDING:** Example: 1" (25.4mm) LPG Delivery Pro™ CGA Type 1 LPG-Hose Issue No. E-8167 350 Psi

(2.4 MPa) Max WP. Made in USA

**COUPLINGS:** Factory installed crimped fittings only

**ORDER CODES:** 532-412

#### LPG DELIVERY PRO™

| ID   |      | NOM. OD |      | MAX | . WP | WEIGHT  |        |
|------|------|---------|------|-----|------|---------|--------|
| in.  | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |
| 1/2  | 12.7 | 0.930   | 23.6 | 350 | 2.41 | 0.28    | 0.42   |
| 3/4  | 19.1 | 1.230   | 31.2 | 350 | 2.41 | 0.46    | 0.68   |
| 1    | 25.4 | 1.490   | 37.8 | 350 | 2.41 | 0.57    | 0.85   |
| 11/4 | 31.8 | 1.800   | 45.7 | 350 | 2.41 | 0.68    | 1.01   |
| 1½   | 38.1 | 2.080   | 52.8 | 350 | 2.41 | 1.10    | 1.64   |

## WATER DISCHARGE



|  | Page | Rubber | Thermoplastic | MSHA | Temp<br>Range  | Coupled<br>Lengths | Lay-flat<br>Construction |
|--|------|--------|---------------|------|----------------|--------------------|--------------------------|
| Brigade Mine                           | 137  |        | Yes           | Yes  | -10°F to 150°F |                    | Yes                      |
| Fire Engine Booster                    | 223  | Yes    |               |      | 0°F to 180°F   | Yes                |                          |
| Pathfinder® Garden Hose                | 224  | Yes    |               |      | -40°F to 190°F | Yes                |                          |
| Plicord® Furnace Door                  | 225  | Yes    |               |      | -25°F to 200°F |                    |                          |
| Plicord® HD Water Discharge            | 226  | Yes    |               |      | -25°F to 180°F |                    |                          |
| Plicord® Versiflo® 125                 | 227  | Yes    |               |      | -25°F to 180°F |                    | Yes                      |
| Plicord® Water Discharge 150           | 228  | Yes    |               |      | -25°F to 180°F |                    |                          |
| Potable Water                          | 79   | Yes    |               |      | -25°F to 180°F |                    |                          |
| Spiraflex® Black (Lay-Flat Super Duty) | 218  | Yes    |               |      | -36°F to 178°F |                    | Yes                      |
| Spiraflex® Blue (Extra Light Duty)     | 219  |        | Yes           |      | -10°F to 150°F |                    | Yes                      |
| Spiraflex® Gray (Light Duty)           | 220  |        | Yes           |      | -10°F to 150°F |                    | Yes                      |
| Spiraflex® Red (Medium Duty)           | 221  |        | Yes           | Yes  | -10°F to 150°F |                    | Yes                      |
| Spiraflex® Yellow (Heavy Duty)         | 222  |        | Yes           |      | -10°F to 150°F |                    | Yes                      |

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

> CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer

Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

VEYANCE

# WATER Discharge Suction & Discharge Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER Discharge

Suction & Discharge Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# SPIRAFLEX® BLACK LAY-FLAT SUPER DUTY HOSE



# NEV

## **Product Specifications**

**APPLICATION:** Spiraflex® Black is a lay-flat, heavy-duty water discharge and washdown hose that combines the

lightweight, compact features of PVC with the durability and abrasion resistance of conventional construction. This hose features a unique one-piece, through-the-weave construction and attains its working pressure from a synthetic woven textile. Resists mildew/rot and requires no drying time. Its excellent durability is derived from a high-tensile rubber compound, which completely encases the jacket. Applications include irrigation, washdown, dewatering, coal preparation and utility plants; gas drilling;

jetting and pump discharge; storage tank cleaning and sewer cleaning.

CONSTRUCTION

TUBE AND COVER: Nitrile/PVC compound. Both tube and cover are simultaneously extruded to obtain maximum bending.

**REINFORCEMENT:** Through-the-weave fabric reinforcement

**TEMPERATURE:** -36°F to 178°F (-37°C to 81°C)

PACKAGING: Coiled

BRANDING: Not branded

NON-STOCK/SIZES: Contact your Goodyear Engineered Products representative for special production run minimum

requirements.

**ORDER CODES:** Contact customer service for ordering details

## SPIRAFLEX® BLACK LAY-FLAT SUPER-DUTY HOSE

| ID  |        | NOM. OD |        | MAX | . WP | WEIGHT  |        |
|-----|--------|---------|--------|-----|------|---------|--------|
| in. | mm.    | in.     | mm.    | psi | Мра  | lb./ft. | kg./m. |
| 1½  | 38.09  | 1.58    | 40.13  | 300 | 1.72 | 0.26    | 0.38   |
| 2   | 50.80  | 2.08    | 52.83  | 250 | 1.72 | 0.36    | 0.54   |
| 2½  | 63.50  | 2.58    | 65.53  | 250 | 1.72 | 0.46    | 0.68   |
| 3   | 76.19  | 3.10    | 78.74  | 230 | 1.72 | 0.52    | 0.77   |
| 4   | 101.60 | 4.10    | 104.14 | 200 | 1.38 | 0.72    | 1.07   |
| 6   | 152.39 | 6.13    | 155.70 | 150 | 1.03 | 1.25    | 1.86   |
| 8   | 203.20 | 8.16    | 207.26 | 150 | 1.03 | 1.70    | 2.53   |



# SPIRAFLEX® BLUE EXTRA LIGHT DUTY



### **Product Specifications**

APPLICATION: For light-duty water discharge applications in mining, construction, industry, agricultural and

marine service.

CONSTRUCTION

TUBE: Blue PVC compound

**COVER:** Blue PVC compound

**REINFORCEMENT:** Synthetic fabric

**TEMPERATURE:** -10°F to 150°F (-23°C to 66°C)

PACKAGING: 300', continuous one piece, coiled and poly-wrapped

BRANDING: Example: Goodyear® Spiraflex® Blue 2" (50.8 mm) 80 psi WP (.55 Mpa)

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 537-564

SPIRAFLEX® BLUE EXTRA LIGHT DUTY

| ID  |       | NOM. OD |       | MAX | . WP | WEIGHT  |        |  |
|-----|-------|---------|-------|-----|------|---------|--------|--|
| in. | mm.   | in.     | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 1½  | 38.1  | 1.67    | 42.4  | 90  | 0.62 | 0.18    | 0.27   |  |
| 2   | 50.8  | 2.21    | 56.1  | 80  | 0.55 | 0.24    | 0.37   |  |
| 2½  | 63.5  | 2.68    | 68.1  | 55  | 0.38 | 0.35    | 0.52   |  |
| 3   | 76.2  | 3.20    | 81.3  | 55  | 0.38 | 0.38    | 0.56   |  |
| 4   | 101.6 | 4.26    | 108.2 | 50  | 0.34 | 0.63    | 0.94   |  |
| 6   | 152.4 | 6.26    | 159.0 | 35  | 0.24 | 1.14    | 1.70   |  |
| 8   | 203.2 | 8.32    | 211.3 | 35  | 0.24 | 1.30    | 1.93   |  |

Note: Working pressures are rated at  $72^{\circ}F$ .

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge

Suction & Discharge Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# SPIRAFLEX® GRAY



## **Product Specifications**

**APPLICATION:** For light-duty water discharge service.

CONSTRUCTION

TUBE: Black Pliovic® compound

COVER: Gray Pliovic compound

**REINFORCEMENT:** Synthetic fabric

**TEMPERATURE:** -10°F to 150°F (-23°C to 66°C)

PACKAGING: 300' continuous one piece, coiled and banded

BRANDING: Example: Goodyear® Spiraflex® Gray 2" (53.0 mm) 80 psi (.41 Mpa). Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 537-555

### SPIRAFLEX® GRAY LIGHT DUTY

| ID  |       | NOM. OD |       | MAX | . WP | WEIGHT  |        |  |
|-----|-------|---------|-------|-----|------|---------|--------|--|
| in. | mm.   | in.     | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 1½  | 38.1  | 1.72    | 43.7  | 90  | 0.62 | 0.18    | 0.27   |  |
| 2   | 50.8  | 2.22    | 56.4  | 80  | 0.55 | 0.24    | 0.35   |  |
| 2½  | 63.5  | 2.79    | 70.9  | 60  | 0.41 | 0.35    | 0.52   |  |
| 3   | 76.2  | 3.27    | 83.1  | 50  | 0.34 | 0.38    | 0.57   |  |
| 4   | 101.6 | 4.33    | 110.0 | 45  | 0.31 | 0.63    | 1.01   |  |
| 6   | 152.4 | 6.38    | 162.1 | 35  | 0.24 | 1.14    | 1.70   |  |

Note: Working pressures are rated at 72°F.



# SPIRAFLEX® RED MEDIUM DUTY





## **Product Specifications**

APPLICATION: For medium-duty discharge applications in mining, construction, industry, agriculture and

marine service. Limited oil and chemical application.

CONSTRUCTION

**TUBE:** Black Pliovic®/Nitrile rubber tube

**COVER:** Red Pliovic, MSHA 2G-14C/16

**REINFORCEMENT:** Spiral synthetic yarn, one layer longitudinal synthetic yarn

**TEMPERATURE:** -10°F to 150°F (-23°C to 66°C)

PACKAGING: 300' continuous one piece, coiled and banded

**BRANDING:** Example: Goodyear® Spiraflex® Red 2" (50.8 mm) 150 psi WP (1.00 Mpa), Flame Resistant,

USMSHA 2G-14C/16. Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 537-521

SPIRAFLEX® RED MEDIUM DUTY

| ID  |       | NOM. OD |       | MAX | . WP | WEIGHT  |        |  |
|-----|-------|---------|-------|-----|------|---------|--------|--|
| in. | mm.   | in.     | mm.   | psi | Мра  | lb./ft. | kg./m. |  |
| 1½  | 38.1  | 1.71    | 43.4  | 150 | 1.03 | 0.23    | 0.34   |  |
| 2   | 50.8  | 2.24    | 56.9  | 150 | 1.03 | 0.36    | 0.54   |  |
| 2½  | 63.5  | 2.79    | 70.9  | 150 | 1.03 | 0.41    | 0.61   |  |
| 3   | 76.2  | 3.29    | 83.6  | 125 | 0.86 | 0.46    | 0.68   |  |
| 4   | 101.6 | 4.32    | 109.7 | 100 | 0.69 | 0.73    | 1.09   |  |
| 6   | 152.4 | 6.40    | 162.6 | 100 | 0.69 | 1.18    | 1.76   |  |

Note: Working pressures are rated at 72°F.

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer

> > MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &

Discharge Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER

Discharge Suction & Discharge Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## SPIRAFLEX® YELLOW HEAVY DUTY SPIRAFLEX® 2700



## **Product Specifications**

**APPLICATION:** For heavy-duty applications in mining, agriculture, construction and marine service. Limited oil

and chemical application.

CONSTRUCTION

**TUBE:** Black Pliovic® /Nitrile PVC Tube

**COVER:** Yellow fire-retardant Pliovic, MSHA 2G-14C/15

**REINFORCEMENT:** Synthetic fabric

**TEMPERATURE:** -10°F to 150°F (-23°C to 66°C)

**PACKAGING:** 300' continuous one-piece, coiled and banded

**BRANDING:** Example: Goodyear® Spiraflex® Yellow 2" (50.8 mm), 200 psi (1.38 Mpa) Flame Resistant,

USMSHA 2G-14C/15. Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 537-513

### SPIRAFLEX® YELLOW HEAVY DUTY

| 1   | ID    |      | NOM. OD |     | . WP | WEIGHT  |        |  |
|-----|-------|------|---------|-----|------|---------|--------|--|
| in. | mm.   | in.  | mm.     | psi | Мра  | lb./ft. | kg./m. |  |
| 1½  | 38.1  | 1.77 | 45.0    | 200 | 1.38 | 0.32    | 0.48   |  |
| 2   | 50.8  | 2.34 | 59.4    | 200 | 1.38 | 0.42    | 0.63   |  |
| 2½  | 63.5  | 2.88 | 73.2    | 200 | 1.38 | 0.66    | 0.98   |  |
| 3   | 76.2  | 3.40 | 86.4    | 200 | 1.38 | 0.76    | 1.13   |  |
| 4   | 101.6 | 4.41 | 112.0   | 150 | 1.03 | 1.00    | 1.49   |  |
| 6   | 152.4 | 6.48 | 164.6   | 150 | 1.03 | 1.69    | 2.51   |  |

Note: Working pressures are rated at 72°F.



# FIRE ENGINE BOOSTER



AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing

Dock Transfer

SPRAY

STEAM

VEYANCE

VACUUM

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## **Product Specifications**

APPLICATION: For use in high-pressure fire engine booster service. Also has many applications in other

heavy-duty industrial and municipal operations.

CONSTRUCTION

**TUBE:** Synthetic rubber

COVER: Red synthetic rubber

**REINFORCEMENT:** Braided (2) synthetic yarn

**TEMPERATURE:** 0°F to 180°F (-18°C to 82°C)

**PACKAGING:** Cartons: 1000' (50' increments)

Cut lengths: 50' (2 pieces); 100' (1 piece) Coupled lengths: 50' (2 pieces); 100' (1 piece)

**BRANDING:** Example: Goodyear® 1" Fire Engine Booster. Made in USA

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 536-382

### FIRE ENGINE BOOSTER

| ID  |      | NOM. OD |      | MAX | . WP | WEIGHT  |        |
|-----|------|---------|------|-----|------|---------|--------|
| in. | mm.  | in.     | mm.  | psi | Мра  | lb./ft. | kg./m. |
| 3/4 | 19.1 | 1.25    | 31.8 | 800 | 5.52 | 0.42    | 0.62   |
| 1   | 25.4 | 1.53    | 38.9 | 800 | 5.52 | 0.57    | 0.85   |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

#### WATER

Discharge Suction & Discharge Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# PATHFINDER® GARDEN HOSE



### **Product Specifications**

**APPLICATION:** For in-home, lawn and garden, apartment, smaller plant and commercial property applications.

CONSTRUCTION

**TUBE:** Versigard® synthetic rubber

**COVER:** Green Versigard synthetic rubber

**REINFORCEMENT:** Spiral synthetic yarn

TEMPERATURE: -40°F to 190°F (-40°C to 88°C)

PACKAGING: 500' reels, maximum 3 pieces, 50' increments

**BRANDING:** Example: 5/8" (15.9 mm) Pathfinder® Goodyear® 100 psi WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: Available in 25' or 50' coupled assemblies.

**ORDER CODES:** 569-027

### PATHFINDER® GARDEN HOSE

| ID  |      | NOM. OD |      | MAX. WP |      | WEIGHT  |        |
|-----|------|---------|------|---------|------|---------|--------|
| in. | mm.  | in.     | mm.  | psi     | Мра  | lb./ft. | kg./m. |
| 5/8 | 15.9 | 0.94    | 23.9 | 100     | 0.69 | 0.22    | 0.33   |



# PLICORD® FURNACE DOOR



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## **Product Specifications**

APPLICATION: For carrying cooling water to furnace doors in steel mills and similar service operations where the

outside of the hose is subjected to open flame and elevated temperatures.

CONSTRUCTION TUBE:

E: Plioflex® synthetic rubber (nonconductive)

COVER: Fiberglass fabric ply over rubber cover

**REINFORCEMENT:** Spiral-plied (4) plies of synthetic fabric

**TEMPERATURE:** -25°F to 200°F (-32°C to 93°C)

**PACKAGING:** 1/2"-4" 100' lengths, coiled and polywrapped

BRANDING: Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 542-309

### PLICORD® FURNACE DOOR

| ı    | ID    | NOM. OD |       | MAX | K. WP | WEI     | IGHT   |  |  |  |
|------|-------|---------|-------|-----|-------|---------|--------|--|--|--|
| in.  | mm.   | in.     | mm.   | psi | Мра   | lb./ft. | kg./m. |  |  |  |
| 1/2  | 12.7  | 1.06    | 26.9  | 200 | 1.38  | 0.38    | 0.57   |  |  |  |
| 3/4  | 19.1  | 1.32    | 33.5  | 200 | 1.38  | 0.52    | 0.77   |  |  |  |
| 1    | 25.4  | 1.64    | 41.7  | 200 | 1.38  | 0.76    | 1.13   |  |  |  |
| 11/4 | 31.8  | 2.06    | 52.3  | 200 | 1.38  | 1.19    | 1.77   |  |  |  |
| 1½   | 38.1  | 2.30    | 58.4  | 200 | 1.38  | 1.36    | 2.02   |  |  |  |
| 2    | 50.8  | 2.87    | 72.9  | 200 | 1.38  | 1.85    | 2.75   |  |  |  |
| 2½   | 63.5  | 3.36    | 85.3  | 200 | 1.38  | 2.23    | 3.32   |  |  |  |
| 3    | 76.0  | 3.85    | 97.8  | 200 | 1.38  | 5.70    | 8.45   |  |  |  |
| 4    | 102.0 | 4.87    | 123.8 | 150 | 1.03  | 6.90    | 10.30  |  |  |  |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

# WATER Discharge Suction & Discharge Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## PLICORD® HD WATER DISCHARGE



### **Product Specifications**

**APPLICATION:** A heavy-duty, all-purpose hose with excellent abrasion resistance. It is ideal for service in

quarries, mines and construction.

CONSTRUCTION

TUBE: Black Plioflex® synthetic rubber

**COVER:** Black Plioflex synthetic rubber (wrapped finish)

**REINFORCEMENT:** Spiral-plied (4) plies of synthetic fabric

**TEMPERATURE:** -25°F to 180°F (-32°C to 82°C)

**PACKAGING:** 1"-8" 100' lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Goodyear® Plicord® HD Water

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 542-437 (65/8" and below) 541-437 (8" and above)

### PLICORD® HD WATER DISCHARGE

| ı    | D     | NOM. OD |       | MAX | . WP | WEI     | WEIGHT |  |  |
|------|-------|---------|-------|-----|------|---------|--------|--|--|
| in.  | mm.   | in.     | mm.   | psi | Мра  | lb./ft. | kg./m. |  |  |
| 1½   | 38.1  | 2.00    | 50.8  | 200 | 1.38 | 0.79    | 1.18   |  |  |
| 2    | 50.8  | 2.50    | 63.5  | 200 | 1.38 | 0.97    | 1.44   |  |  |
| 21/2 | 63.5  | 3.06    | 77.7  | 200 | 1.38 | 1.36    | 2.02   |  |  |
| 3    | 76.2  | 3.55    | 90.2  | 200 | 1.38 | 1.60    | 2.38   |  |  |
| 4    | 101.6 | 4.58    | 116.3 | 150 | 1.03 | 2.10    | 3.13   |  |  |
| 41/2 | 114.3 | 5.07    | 128.8 | 150 | 1.03 | 2.34    | 3.48   |  |  |
| 5    | 127.0 | 5.57    | 141.5 | 150 | 1.03 | 2.59    | 3.85   |  |  |
| 6    | 152.4 | 6.53    | 165.9 | 150 | 1.03 | 2.87    | 4.27   |  |  |
| 65%  | 168.3 | 7.22    | 183.4 | 150 | 1.03 | 3.58    | 5.33   |  |  |
| 8    | 203.2 | 8.57    | 217.7 | 100 | 0.69 | 4.06    | 6.04   |  |  |
| 85/8 | 219.1 | 9.19    | 233.4 | 100 | 0.69 | 4.57    | 6.81   |  |  |
| 10   | 254.0 | 10.63   | 270.0 | 100 | 0.69 | 5.73    | 8.54   |  |  |
| 12   | 304.8 | 12.66   | 321.6 | 100 | 0.69 | 6.79    | 10.12  |  |  |



# PLICORD® VERSIFLO® 125



MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

AIR &

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING

Abrasives
Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## **Product Specifications**

APPLICATION: For medium-duty water discharge service where the hose does not encounter severe handling.

CONSTRUCTION

**TUBE:** Black Versigard® synthetic rubber

**COVER:** Black Versigard (wrapped finish)

**REINFORCEMENT:** Spiral-plied synthetic fabric

**TEMPERATURE:** -25°F to 180°F (-32°C to 82°C)

PACKAGING: 100' lengths, coiled and polywrapped

**BRANDING (SPIRAL):** Example: Goodyear® Versiflo® 125 Water Discharge

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 542-527

#### PLICORD® VERSIFLO® 125

| ı    | D     | NOM  | I. OD | MAX | . WP | WEI     | GHT    |
|------|-------|------|-------|-----|------|---------|--------|
| in.  | mm.   | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. |
| 11/4 | 31.8  | 1.48 | 37.6  | 125 | 0.86 | 0.26    | 0.39   |
| 1½   | 38.1  | 1.72 | 43.7  | 125 | 0.86 | 0.30    | 0.45   |
| 2    | 50.8  | 2.24 | 56.9  | 125 | 0.86 | 0.40    | 0.60   |
| 2½   | 63.5  | 2.73 | 69.3  | 125 | 0.86 | 0.49    | 0.73   |
| 3    | 76.2  | 3.22 | 81.8  | 125 | 0.86 | 0.58    | 0.86   |
| 4    | 101.6 | 4.21 | 106.9 | 125 | 0.86 | 0.83    | 1.24   |
| 6    | 152.4 | 6.32 | 160.5 | 125 | 0.86 | 1.58    | 2.35   |

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# PLICORD® WATER DISCHARGE 150



### **Product Specifications**

**APPLICATION:** For use in heavy-duty service for a wide range of applications.

CONSTRUCTION

TUBE: Black Plioflex® synthetic rubber

COVER: Black Plioflex synthetic rubber

**REINFORCEMENT:** Spiral-plied synthetic fabric

**TEMPERATURE:** -25°F to 180°F (-32°C to 82°C)

PACKAGING: 3/4"-6" 100' lengths, coiled and polywrapped 8"-12" 50' lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Goodyear® Plicord® Water 150

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 542-438 (1/2"-6") 541-438 (8"-16")

### PLICORD® WATER DISCHARGE 150

| I    | D     | NOM   | I. OD | MAX | . WP | WEI     | GHT    |
|------|-------|-------|-------|-----|------|---------|--------|
| in.  | mm.   | in.   | mm.   | psi | Мра  | lb./ft. | kg./m. |
| 3/4  | 19.1  | 1.04  | 26.4  | 150 | 1.03 | 0.23    | 0.34   |
| 1    | 25.4  | 1.29  | 32.8  | 150 | 1.03 | 0.30    | 0.45   |
| 11/4 | 31.8  | 1.60  | 40.6  | 150 | 1.03 | 0.43    | 0.64   |
| 1½   | 38.1  | 1.84  | 46.7  | 150 | 1.03 | 0.50    | 0.74   |
| 2    | 50.8  | 2.38  | 60.5  | 150 | 1.03 | 0.71    | 1.06   |
| 2½   | 63.5  | 2.87  | 72.9  | 150 | 1.03 | 0.87    | 1.29   |
| 3    | 76.2  | 3.47  | 88.1  | 150 | 1.03 | 1.37    | 2.04   |
| 4    | 101.6 | 4.50  | 114.3 | 150 | 1.03 | 1.80    | 2.68   |
| 5    | 127.0 | 5.51  | 140.0 | 150 | 1.03 | 2.32    | 3.45   |
| 6    | 152.4 | 6.49  | 164.9 | 150 | 1.03 | 2.53    | 3.76   |
| 8    | 203.2 | 8.45  | 214.6 | 150 | 1.03 | 3.81    | 5.68   |
| 10   | 254.0 | 10.63 | 270.0 | 150 | 1.03 | 5.67    | 8.45   |
| 12   | 304.8 | 12.68 | 322.1 | 150 | 1.03 | 7.02    | 10.46  |



# WATER SUCTION & DISCHARGE



|                              | Page | Rubber | Thermoplastic | Clear | Temp Range     | Tube Compound |
|------------------------------|------|--------|---------------|-------|----------------|---------------|
| Cold Blue <sup>™</sup>       | 230  |        | Yes           | Yes   | -40°F to 150°F | PVC           |
| Green Hornet <sup>™</sup> XF | 231  |        | Yes           |       | -40°F to 180°F | TPR/PVC       |
| Flexwing® Water S&D          | 234  | Yes    |               |       | -25°F to 180°F | SBR           |
| Spiraflex® 1600              | 232  |        | Yes           |       | 0°F to 158°F   | PVC           |
| Spiraflex® Aggie PVC         | 233  |        | Yes           | Yes   | 0°F to 158°F   | PVC           |
| Versiflo® 150 Water S&D      | 235  | Yes    |               |       | -25°F to 200°F | EPDM          |

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

> CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer

Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

VEYANCE

| WATER     |
|-----------|
| Discharge |
| Suction & |
| Discharge |
| Washdown  |
|           |

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &

Discharge Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## COLD BLUE™



### **Product Specifications**

APPLICATION:

A lightweight, medium-duty water suction and discharge hose for industrial, construction,

agricultural, mining and other applications where low temperature flexibility is required.

CONSTRUCTION

TUBE:

Clear flexible PVC

**REINFORCEMENT:** Blue r

Blue rigid PVC helix

TEMPERATURE:

-40°F to 150°F (-40°C to 65°C)

BRANDING:

Not branded

PACKAGING:

100' coils, covered with corrugated cardboard and wrapped with clear stretch film.

**ORDER CODES:** 

586-518

### **COLD BLUE™**

| 1    | D     | NON  | I. OD | MAX | . WP | WE      | GHT    | VACUI | JM HG | BEND I | RADIUS |
|------|-------|------|-------|-----|------|---------|--------|-------|-------|--------|--------|
| in.  | mm.   | in.  | mm.   | psi | Мра  | lb./ft. | kg./m. | in.   | mm.   | in.    | mm.    |
| 3/4  | 19.1  | .99  | 25.1  | 120 | .83  | .163    | .242   | 29    | 737   | 3      | 76     |
| 1    | 25.4  | 1.25 | 31.8  | 106 | .73  | .229    | .341   | 29    | 737   | 5      | 127    |
| 11/4 | 31.8  | 1.54 | 39.2  | 99  | .68  | .305    | .454   | 29    | 737   | 5      | 127    |
| 1½   | 38.1  | 1.77 | 44.9  | 89  | .61  | .372    | .559   | 29    | 737   | 6      | 152    |
| 2    | 50.8  | 2.33 | 59.2  | 80  | .55  | .583    | .869   | 29    | 737   | 8      | 203    |
| 2½   | 63.5  | 2.87 | 72.9  | 65  | .45  | .840    | 1.25   | 29    | 737   | 10     | 254    |
| 3    | 76.2  | 3.40 | 86.5  | 65  | .45  | 1.01    | 1.50   | 29    | 737   | 12     | 305    |
| 4    | 101.6 | 4.50 | 114.0 | 55  | .38  | 1.65    | 2.46   | 29    | 737   | 16     | 406    |
| 6    | 152.4 | 6.62 | 168.2 | 47  | .32  | 3.27    | 4.87   | 29    | 737   | 36     | 914    |

Testing performed at 70°F.





# Heavy Duty **CHEMICAL**

**MULTIPURPOSE** 

TRANSFER

AIR &

**CLEANING EQUIPMENT** 

> FOOD Transfer Washdown

> > MARINE

MATERIAL

HANDLING Bulk Transfer Cement & Concrete

MINING

**PETROLEUM** Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

**WATER** Discharge

Suction & Discharge

Washdown

WELDING

COUPLING **SYSTEMS** 

**APPENDIX** 

### **Product Specifications**

APPLICATION:

Medium-duty, light-weight construction; retains flexibility in cold weather. Smooth-bore tube minimizes material buildup and resists a variety of chemicals found in agricultural and sanitary industries. Slightly corrugated outer helix promotes abrasion resistance, low coefficient of friction and ease of coupling. Common uses can be found in waste management, construction,

agricultural, marine and manufacturing industries.

CONSTRUCTION

Black thermoplastic rubber, RMA Class B (medium oil resistance) TUBE:

REINFORCEMENT: Rigid, lime-green polyethylene helix; available in a variety of custom colors

**TEMPERATURE:** -40°F to 180°F (-40°C to 82°C)

PACKAGING: 100' lengths, coiled and polywrapped

BRANDING (SPIRAL): Not branded

> COUPLINGS: Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

ORDER CODES: 586-551

#### **GREEN HORNET™ XF**

| ı    | D     | NOM  | 1. OD | MAX | . WP | BEND I | RADIUS | WEI     | GHT    |
|------|-------|------|-------|-----|------|--------|--------|---------|--------|
| in.  | mm.   | in.  | mm.   | psi | Мра  | in.    | mm.    | lb./ft. | kg./m. |
| 11/4 | 31.8  | 1.53 | 39.0  | 50  | 0.35 | 2.5    | 63.5   | 0.27    | 0.40   |
| 1½   | 38.1  | 1.78 | 45.3  | 50  | 0.35 | 3      | 76.2   | 0.32    | 0.48   |
| 2    | 50.8  | 2.40 | 61.0  | 50  | 0.35 | 4      | 101.6  | 0.56    | 0.83   |
| 2½   | 63.5  | 2.99 | 74.9  | 50  | 0.35 | 5      | 127.0  | 0.75    | 1.12   |
| 3    | 76.2  | 3.47 | 88.1  | 45  | 0.31 | 5      | 127.0  | 0.92    | 1.37   |
| 4    | 101.6 | 4.67 | 118.4 | 40  | 0.28 | 9      | 228.6  | 1.60    | 2.39   |
| 6    | 152.4 | 6.75 | 171.4 | 25  | 0.17 | 20     | 508.0  | 2.88    | 4.30   |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER Discharge

Suction & Discharge

Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## SPIRAFLEX® 1600



## **Product Specifications**

**APPLICATION:** For water suction and discharge service in construction and septic tank cleaning operations, and

for general industrial and agricultural applications where mild chemical resistance is required.

CONSTRUCTION
TUBE: Olive green Pliovic® with high-density rigid helix

TODE: Onvo Stoom Fliotto With high denote High house

**REINFORCEMENT:** Olive green Pliovic® with high-density rigid helix

**TEMPERATURE**: 0°F to 158°F (-9°C to 70°C)

PACKAGING: 3/4"-6" 100' lengths, coiled and polywrapped

8"-10" 20' lengths, coiled and polywrapped

**BRANDING:** Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

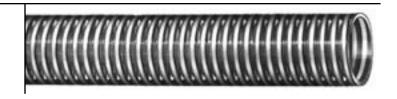
**ORDER CODES:** 586-411

#### SPIRAFLEX® 1600

| 1    | D     | NOM   | 1. OD | MAX | . WP | BEND | RADIUS | VACUI | UM HG | WE      | IGHT   |
|------|-------|-------|-------|-----|------|------|--------|-------|-------|---------|--------|
| in.  | mm.   | in.   | mm.   | psi | Мра  | in.  | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 3/4  | 19.1  | 0.98  | 24.9  | 130 | 0.90 | 3    | 83     | 29    | 737   | 0.18    | 0.27   |
| 1    | 25.4  | 1.24  | 31.5  | 106 | 0.73 | 5    | 114    | 29    | 737   | 0.25    | 0.37   |
| 11/4 | 31.8  | 1.53  | 38.9  | 99  | 0.68 | 5    | 127    | 29    | 737   | 0.32    | 0.48   |
| 1½   | 38.1  | 1.78  | 45.2  | 89  | 0.61 | 6    | 152    | 29    | 737   | 0.37    | 0.55   |
| 2    | 50.8  | 2.32  | 58.9  | 79  | 0.54 | 8    | 203    | 29    | 737   | 0.61    | 0.91   |
| 2½   | 63.5  | 2.85  | 72.4  | 65  | 0.45 | 10   | 254    | 29    | 737   | 0.87    | 1.29   |
| 3    | 76.2  | 3.41  | 86.6  | 65  | 0.45 | 12   | 305    | 29    | 737   | 1.08    | 1.61   |
| 4    | 101.6 | 4.46  | 113.3 | 55  | 0.38 | 16   | 406    | 29    | 737   | 1.69    | 2.51   |
| 6    | 152.4 | 6.57  | 166.9 | 47  | 0.32 | 36   | 914    | 29    | 737   | 3.05    | 4.54   |
| 8    | 203.2 | 8.92  | 226.6 | 40  | 0.28 | 60   | 1524   | 20    | 508   | 6.35    | 9.45   |
| 10   | 254.0 | 10.93 | 277.6 | 35  | 0.24 | 100  | 2540   | 20    | 508   | 8.75    | 13.04  |



# SPIRAFLEX® AGGIE PVC



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing

> Dock Transfer

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## **Product Specifications**

APPLICATION: A general-purpose water suction hose for use in industrial, agriculture and construction

applications.

CONSTRUCTION

TUBE: Clear Pliovic®

**REINFORCEMENT:** High-density white rigid Pliovic helix

**TEMPERATURE**: 0°F to 158°F (-9°C to 70°C)

PACKAGING: 100' lengths coiled and polywrapped

BRANDING (SPIRAL): Not branded

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 586-453

### SPIRAFLEX® AGGIE PVC

| ı    | D     | NOM  | 1. OD | MAX | . WP | BEND | RADIUS | VACUI | JM HG | WE      | IGHT   |
|------|-------|------|-------|-----|------|------|--------|-------|-------|---------|--------|
| in.  | mm.   | in.  | mm.   | psi | Мра  | in.  | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 3/4  | 19.1  | 1.00 | 25.4  | 120 | 0.83 | 3.0  | 76     | 29    | 737   | 0.18    | 0.27   |
| 1    | 25.4  | 1.24 | 31.5  | 106 | 0.73 | 4.5  | 114    | 29    | 737   | 0.23    | 0.34   |
| 11/4 | 31.8  | 1.53 | 38.9  | 99  | 0.68 | 5.0  | 127    | 29    | 737   | 0.34    | 0.51   |
| 1½   | 38.1  | 1.78 | 45.2  | 89  | 0.61 | 6.0  | 152    | 29    | 737   | 0.38    | 0.57   |
| 2    | 50.8  | 2.31 | 58.7  | 79  | 0.54 | 8.0  | 203    | 29    | 737   | 0.58    | 0.86   |
| 2½   | 63.5  | 2.85 | 72.4  | 65  | 0.45 | 10.0 | 254    | 29    | 737   | 0.90    | 1.34   |
| 3    | 76.2  | 3.41 | 86.6  | 65  | 0.45 | 12.0 | 305    | 29    | 737   | 1.07    | 1.59   |
| 4    | 101.6 | 4.47 | 113.5 | 55  | 0.38 | 16.0 | 406    | 29    | 737   | 1.69    | 2.51   |
| 6    | 152.4 | 6.60 | 167.6 | 47  | 0.32 | 36.0 | 914    | 29    | 737   | 3.29    | 4.90   |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# FLEXWING® WATER S&D



## NEW

## **Product Specifications**

APPLICATION: A general-purpose, economical hose for applications in light or medium water suction and discharge

operations. Rated for full vacuum. Used in various industrial, agricultural and construction areas.

CONSTRUCTION

**TUBE:** Black Plioflex® Synthetic Rubber

COVER: Black Plioflex Synthetic Rubber

**REINFORCEMENT:** Synthetic fabric plies with internal wire helix

TEMPERATURE: -25°F to 180°F (-32°C to 82°C)

**PACKAGING:** 3/4" - 6" 100' lengths, coiled and polywrapped

8"-12" Custom length

**BRANDING (SPIRAL):** Example: Flexwing® Water S&D

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 542-249 (3/4" - 6") 541-249 (8" - 12")

#### FLEXWING® WATER S&D

| ı    | D     | NOM   | 1. OD | MAX | . WP | BEND I | RADIUS | VACUI | JM HG | WEI     | GHT   |
|------|-------|-------|-------|-----|------|--------|--------|-------|-------|---------|-------|
| in.  | mm.   | in.   | mm.   | psi | Мра  | in.    | mm.    | in.   | mm.   | lb./ft. | kg./m |
| 3/4  | 19.0  | 1.09  | 27.9  | 150 | 0.86 | 2      | 50     | 29    | 737   | 0.33    | 0.49  |
| 1    | 25.3  | 1.34  | 34.1  | 150 | 0.86 | 2      | 50     | 29    | 737   | 0.41    | 0.61  |
| 11/4 | 32.0  | 1.61  | 40.8  | 150 | 0.86 | 4      | 100    | 29    | 737   | 0.50    | 0.75  |
| 1½   | 38.0  | 1.84  | 46.9  | 150 | 0.86 | 4      | 100    | 29    | 737   | 0.63    | 0.94  |
| 2    | 51.1  | 2.38  | 60.4  | 150 | 0.86 | 7      | 180    | 29    | 737   | 0.84    | 1.25  |
| 2½   | 63.6  | 2.89  | 73.3  | 150 | 0.86 | 10     | 250    | 29    | 737   | 1.08    | 1.61  |
| 3    | 76.1  | 3.42  | 86.8  | 150 | 0.86 | 14     | 360    | 29    | 737   | 1.46    | 2.18  |
| 3½   | 90.0  | 3.97  | 100.9 | 150 | 0.86 | 14     | 360    | 29    | 737   | 1.80    | 2.68  |
| 4    | 102.1 | 4.45  | 113.1 | 150 | 0.86 | 18     | 460    | 29    | 737   | 2.03    | 3.02  |
| 5    | 127.3 | 5.53  | 140.5 | 150 | 0.86 | 20     | 510    | 29    | 737   | 3.34    | 4.98  |
| 6    | 152.6 | 6.63  | 168.0 | 150 | 0.86 | 24     | 610    | 29    | 737   | 4.67    | 6.96  |
| 8    | 203.5 | 8.75  | 222.3 | 125 | 0.86 | 48     | 1200   | 29    | 737   | 7.56    | 11.26 |
| 10   | 253.9 | 10.97 | 278.3 | 125 | 0.86 | 60     | 1500   | 29    | 737   | 12.34   | 18.39 |
| 12   | 305.5 | 12.19 | 335.4 | 125 | 0.86 | 72     | 1800   | 29    | 737   | 19.07   | 28.41 |



# VERSIFLO® 150 WATER S&D



### **Product Specifications**

APPLICATION: General-purpose water suction and discharge for medium- to heavy-duty applications. Can be

used in Lasso® applications.

CONSTRUCTION

**TUBE:** Black Versigard® synthetic rubber

**COVER:** Black Versigard synthetic rubber (wrapped finish)

**REINFORCEMENT:** Plies of synthetic fabric with wire helix

**TEMPERATURE:** -25°F to 200°F (-32°C to 93°C)

PACKAGING: 542-528 100' lengths, coiled and polywrapped

541-528 custom lengths

**BRANDING (SPIRAL):** Example: Goodyear® Versiflo® 150 Water Suction & Discharge

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 542-528 (1 1/4"-6") 541-528 (8"-14")

VERSIFLO® 150 WATER S&D

| ı    | ID    | NON   | 1. OD | MAX | . WP | BEND | RADIUS | VACUI | UM HG | WE      | IGHT   |
|------|-------|-------|-------|-----|------|------|--------|-------|-------|---------|--------|
| in.  | mm.   | in.   | mm.   | psi | Мра  | in.  | mm.    | in.   | mm.   | lb./ft. | kg./m. |
| 11/4 | 31.8  | 1.63  | 41.4  | 150 | 1.03 | 4    | 102    | 29    | 737   | 0.53    | 0.79   |
| 1½   | 38.1  | 1.87  | 47.5  | 150 | 1.03 | 4    | 102    | 29    | 737   | 0.65    | 0.97   |
| 2    | 50.8  | 2.39  | 60.7  | 150 | 1.03 | 7    | 178    | 29    | 737   | 0.87    | 1.29   |
| 2½   | 63.5  | 2.89  | 73.4  | 150 | 1.03 | 10   | 254    | 29    | 737   | 1.08    | 1.61   |
| 3    | 76.2  | 3.42  | 86.9  | 150 | 1.03 | 14   | 356    | 29    | 737   | 1.44    | 2.14   |
| 4    | 101.6 | 4.45  | 113.0 | 150 | 1.03 | 18   | 457    | 29    | 737   | 2.00    | 2.98   |
| 6    | 152.4 | 6.60  | 167.6 | 150 | 1.03 | 24   | 610    | 29    | 737   | 4.56    | 6.79   |
| 8    | 203.0 | 8.75  | 238.0 | 150 | 1.03 | 48   | 1200   | 29    | 737   | 7.40    | 11.00  |
| 10   | 254.0 | 10.96 | 278.0 | 150 | 1.03 | 60   | 1500   | 29    | 737   | 12.20   | 18.20  |
| 12   | 305.0 | 13.23 | 336.0 | 150 | 1.03 | 72   | 1800   | 29    | 737   | 18.70   | 27.90  |
| 14   | 408.0 | 15.57 | 396.0 | 150 | 1.03 | 84   | 2100   | 29    | 737   | 25.10   | 37.40  |

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

vvasiiuuvvi

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

## WATER WASHDOWN



|                       | Page | Temp<br>Range  | Non-<br>marking<br>Cover | Superior<br>Oil Resistance<br>Cover | Superior<br>Abrasion<br>Cover | Microban<br>Cover | Tapered<br>Nozzle | Textile | Wire |
|-----------------------|------|----------------|--------------------------|-------------------------------------|-------------------------------|-------------------|-------------------|---------|------|
| Fortress® 300         | 83   | -20°F to 200°F | Yes                      | Yes                                 | Yes                           | Yes               |                   | Yes     |      |
| Fortress® 1000        | 84   | -20°F to 200°F | Yes                      | Yes                                 | Yes                           | Yes               |                   | Yes     |      |
| Fortress® 3000        | 85   | -20°F to 250°F | Yes                      | Yes                                 | Yes                           | Yes               |                   |         | Yes  |
| Gauntlet® 1500        | 61   | -20°F to 200°F | Yes*                     | Yes                                 | Yes                           |                   |                   | Yes     |      |
| Plicord® Washdown     | 238  | -25°F to 200°F |                          |                                     |                               |                   | Yes               | Yes     |      |
| Pulp & Paper Washdown | 239  | -25°F to 200°F |                          |                                     |                               |                   | Yes               | Yes     |      |
| Sani-Wash™ 300        | 88   | -40°F to 205°F | Yes                      |                                     |                               |                   |                   | Yes     |      |
| Super Sani-Wash™ 300  | 89   | -40°F to 200°F | Yes                      |                                     |                               | Yes               |                   | Yes     |      |
| Spectra® 300          | 87   | -20°F to 200°F | Yes                      | Yes                                 |                               |                   |                   | Yes     |      |
| Sureline®             | 237  | -40°F to 190°F | Yes*                     |                                     |                               |                   |                   | Yes     |      |

\*Nonblack Colors



## **SURELINE®**



AIR & **MULTIPURPOSE** Heavy Duty

> **CHEMICAL** TRANSFER

**CLEANING EQUIPMENT** 

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

**PETROLEUM** Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

**WATER** Discharge Suction & Discharge Washdown

WELDING

COUPLING **SYSTEMS** 

**APPENDIX** 

## **Product Specifications**

APPLICATION: For a wide range of industrial, construction, and agricultural water discharge applications in

which a general-service water hose is needed.

CONSTRUCTION TUBE:

Versigard® synthetic rubber, RMA Class C (limited oil resistance)

COVER:

Red or black Versigard synthetic rubber

REINFORCEMENT:

Spiral synthetic yarn

TEMPERATURE:

-40°F to 190°F (-40°C to 88°C)

PACKAGING:

3/16"-3/4" 500' reels, maximum 3 pieces, 50' increments

1¼"

450' reels, maximum 3 pieces, 50' increments 400' reels, maximum 3 pieces, 50' increments

1½"

300' reels, maximum 3 pieces, 50' increments

Example: 1/2" Sureline® Goodyear® 150 psi WP

BRANDING: **COUPLINGS:** 

Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES:

For special production run minimum requirements, see Appendix D.

ORDER CODES:

569-048 (red) 569-049 (black)

| CHDELIME® |
|-----------|
| SURELINE® |

| II   | D    | NOM. OD |      | MAX. WP |      | WEI     | GHT    |
|------|------|---------|------|---------|------|---------|--------|
| in.  | mm.  | in.     | mm.  | psi     | Мра  | lb./ft. | kg./m. |
| 1/4  | 6.4  | 0.48    | 12.2 | 150     | 1.03 | 0.08    | 0.12   |
| 3/8  | 9.5  | 0.66    | 16.8 | 150     | 1.03 | 0.13    | 0.19   |
| 1/2  | 12.7 | 0.78    | 19.8 | 150     | 1.03 | 0.17    | 0.25   |
| 5/8  | 15.9 | 0.93    | 23.6 | 150     | 1.03 | 0.26    | 0.39   |
| 3/4  | 19.1 | 1.08    | 27.4 | 150     | 1.03 | 0.33    | 0.49   |
| 1    | 25.4 | 1.39    | 35.3 | 150     | 1.03 | 0.52    | 0.77   |
| 11/4 | 31.8 | 1.63    | 41.4 | 150     | 1.03 | 0.57    | 0.85   |
| 1½   | 38.1 | 1.88    | 47.8 | 150     | 1.03 | 0.68    | 1.01   |



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

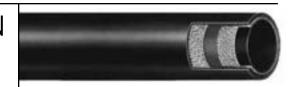
WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# PLICORD® WASHDOWN WITH OPTIONAL INTEGRAL TAPERED NOZZLE



### **Product Specifications**

**APPLICATION:** Plicord® Washdown hose is a quality water discharge hose for the environments typically found

in paper mills and other industrial operations. Can be supplied with an integral rubber nozzle.

CONSTRUCTION

TUBE: Black Plioflex® synthetic rubber

**COVER:** Black Plioflex synthetic rubber (wrapped impression). Also available in green or white

cover (non-FDA).

**REINFORCEMENT:** Spiral-plied synthetic fabric

**TEMPERATURE:** -25°F to 200°F (-32°C to 93°C)

PACKAGING: 50' lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Goodyear® Plicord® Washdown, 150 Max WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

Also available with integral tapered nozzle.

**NON-STOCK/SIZES:** Hose: 400' minimum order/400' increments

Hose with tapered nozzle: Two 50' lengths, two length increments

**ORDER CODES:** 542-454 (black) 542-455 (green) 542-507 (white)

#### PLICORD® WASHDOWN

| I    | D    | NOM. OD |      | MAX. WP |      | WEI     | GHT    |
|------|------|---------|------|---------|------|---------|--------|
| in.  | mm.  | in.     | mm.  | psi     | Мра  | lb./ft. | kg./m. |
| 3/4  | 19.1 | 1.17    | 29.7 | 150     | 1.03 | 0.36    | 0.54   |
| 1    | 25.4 | 1.42    | 36.1 | 150     | 1.03 | 0.45    | 0.67   |
| 11/4 | 31.8 | 1.69    | 42.9 | 150     | 1.03 | 0.55    | 0.82   |
| 1½   | 38.1 | 1.97    | 50.0 | 150     | 1.03 | 0.71    | 1.06   |

Orifice sizes: 3/4" ID-1/2" Orifice

1" ID-1/2" Orifice 1¼" ID-5/8" Orifice 1½" ID-3/4" Orifice



# PULP & PAPER WASHDOWN WITH OPTIONAL INTEGRAL TAPERED NOZZLE



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

### **Product Specifications**

APPLICATION: Heavy-duty water discharge hose for washdown service in pulp and paper mills where kink

resistance is of major importance.

CONSTRUCTION TUBE:

Black Versigard® synthetic rubber (also available in white, non-FDA)

**COVER:** Black Versigard synthetic rubber

**REINFORCEMENT:** Spiral-plied synthetic fabric

**TEMPERATURE:** -25°F to 200°F (-32°C to 93°C)

PACKAGING: 50' lengths, coiled and polywrapped

BRANDING (SPIRAL): Example: Goodyear® HD Washdown, 300 psi Max WP

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

Also available with integral tapered nozzle.

**NON-STOCK/SIZES:** Hose: 400' minimum order/400' increments

Hose with tapered nozzle: Two 50' lengths, two 50' length increments

**ORDER CODES:** 542-452

### **PULP & PAPER WASHDOWN**

| 1    | ID NON |      | 1. OD MAX |     | . WP | WEIGHT  |        |
|------|--------|------|-----------|-----|------|---------|--------|
| in.  | mm.    | in.  | mm.       | psi | Мра  | lb./ft. | kg./m. |
| 3/4  | 19.1   | 1.30 | 33.0      | 300 | 2.07 | 0.47    | 0.70   |
| 1    | 25.4   | 1.62 | 41.2      | 300 | 2.07 | 0.67    | 1.00   |
| 11/4 | 31.8   | 1.88 | 47.8      | 300 | 2.07 | 0.81    | 1.21   |
| 1½   | 38.1   | 2.11 | 53.7      | 300 | 2.07 | 0.91    | 1.36   |

Orifice sizes: 3/4" ID-1/2" Orifice

1" ID-1/2" Orifice 11/4" ID-5/8" Orifice 11/2" ID-3/4" Orifice



| AIR &<br>MULTIPURPOSE<br>General Purpose                        | NOTES |  |
|---|-------|--|
| Heavy Duty<br>Push-on   |       |  |
| CHEMICAL<br>TRANSFER  |       |  |
| CLEANING<br>EQUIPMENT   |       |  |
| FOOD<br>Transfer<br>Washdown                                    |       |  |
| MARINE  |       |  |
| MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete     |       |  |
| MINING  |       |  |
| PETROLEUM<br>Aircraft Fueling<br>Dispensing<br>Dock<br>Transfer |       |  |
| SPRAY   |       |  |
| STEAM   |       |  |
| VACUUM  |       |  |
| VEYANCE   |       |  |
| WATER Discharge Suction & Discharge                             |       |  |
| Washdown  |       |  |
| WELDING   |       |  |
| COUPLING<br>SYSTEMS   |       |  |



## WELDING



|                                      | Page | Oxygen<br>(Green) | Acetylene<br>(Red) | Fuel Gases*<br>(Red) | Flame and Oil<br>Resistant Tube | Flame and Oil<br>Resistant Cover |
|--------------------------------------|------|-------------------|--------------------|----------------------|---------------------------------|----------------------------------|
| Gemini® Twin Line Welding (Grade R)  | 242  | Yes               | Yes                | No                   | No                              | No                               |
| Gemini® Twin Line Welding (Grade RM) | 243  | Yes               | Yes                | No                   | No                              | Yes                              |
| Gemini® Twin Line Welding (Grade T)  | 244  | Yes               | Yes                | Yes                  | Yes                             | Yes                              |
| Single Line Welding (Grade R)        | 245  | Yes               | Yes                | No                   | No                              | No                               |
| Single Line Welding (Grade RM)       | 246  | Yes               | Yes                | No                   | No                              | Yes                              |
| Single Line Welding (Grade T)        | 247  | Yes               | Yes                | Yes                  | Yes                             | Yes                              |

\*Fuel Gases are defined in RMA IP-7 welding hose standard. Flammable compressed gases commonly used in the welding and cutting industry including, but not limited to, acetylene, hydrogen, methane/natural gas, LP gas, propylene and methylacetylene propadiene stabilized.

RMA IP-7 and CGA E-1

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

#### WELDING

COUPLING SYSTEMS



## WELDING

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

#### **WELDING**

COUPLING SYSTEMS

**APPENDIX** 

# GEMINI® TWIN LINE WELDING GRADE R - TYPE VD



## **Product Specifications**

**APPLICATION:** For welding service. Meets RMA IP-7 standard for Grade R welding hose.

CONSTRUCTION

**TUBE:** Versigard® synthetic rubber compatible with oxygen and acetylene gases

**COVER:** Versigard synthetic rubber smooth surface

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE:** -40°F to 120°F (-40°C to 49°C)

PACKAGING: 500' reels

**BRANDING:** Example: Gemini® 1/4" Grade R Acetylene Only Std Duty Max Wp 200 psi Meets RMA

IP-7-2008. Made In USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 569-588

### GEMINI® TWIN LINE WELDING GRADE R

| I    | ID  |      | NOM. OD |     | . WP | WEIGHT  |        |  |
|------|-----|------|---------|-----|------|---------|--------|--|
| in.  | mm. | in.  | mm.     | psi | Мра  | lb./ft. | kg./m. |  |
| 3/16 | 4.8 | 0.44 | 11.2    | 200 | 1.38 | 0.13    | 0.19   |  |
| 1/4  | 6.4 | 0.53 | 13.5    | 200 | 1.38 | 0.18    | 0.27   |  |
| 5/16 | 7.9 | 0.59 | 15.0    | 200 | 1.38 | 0.22    | 0.33   |  |
| 3/8  | 9.5 | 0.66 | 16.8    | 200 | 1.38 | 0.26    | 0.39   |  |

Note: For Welding Hose Precautions, see Appendix C.



# GEMINI® TWIN LINE WELDING GRADE RM - TYPE VD





## **Product Specifications**

APPLICATION: For welding service. Meets RMA IP-7 standard for Grade RM welding hose. Non-conductive.

CONSTRUCTION

 $\textbf{TUBE:} \hspace{0.5cm} \textbf{Plioflex} \\ \textbf{@} \hspace{0.5cm} \textbf{synthetic rubber compatible with oxygen and acetylene gases} \\$ 

**COVER:** Chemivic<sup>™</sup> synthetic rubber smooth cover

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE**: -40°F to 120°F (-40°C to 49°C)

PACKAGING: 500' reels

BRANDING: Example: Gemini® 1/4" Grade Rm Acetylene Only Std Duty Max Wp 200 psi Meets RMA

IP-7-2008. Made In USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 569-598

GEMINI® TWIN LINE WELDING GRADE RM

| 1    | ID  |      | NOM. OD |     | . WP | WEIGHT  |        |  |
|------|-----|------|---------|-----|------|---------|--------|--|
| in.  | mm. | in.  | mm.     | psi | Мра  | lb./ft. | kg./m. |  |
| 3/16 | 4.8 | 0.44 | 11.2    | 200 | 1.38 | 0.15    | 0.22   |  |
| 1/4  | 6.4 | 0.53 | 13.5    | 200 | 1.38 | 0.21    | 0.31   |  |
| 5/16 | 7.9 | 0.59 | 15.0    | 200 | 1.38 | 0.25    | 0.37   |  |
| 3/8  | 9.5 | 0.66 | 16.8    | 200 | 1.38 | 0.29    | 0.43   |  |

Note: For Welding Hose Precautions, see Appendix C.

AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

#### WELDING

COUPLING SYSTEMS



## WELDING

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

#### **WELDING**

COUPLING SYSTEMS

**APPENDIX** 

# GEMINI® TWIN LINE WELDING GRADE T - TYPE VD



## **Product Specifications**



**APPLICATION:** For welding service. Meets RMA IP-7 and CGA E-1 standards for Grade T welding hose.

Non-conductive

CONSTRUCTION

**TUBE:** Wingprene® synthetic rubber compatible with all common welding fuel gases

**COVER:** Chemivic<sup>™</sup> synthetic rubber smooth cover

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE:** -40°F to 120°F (-40°C to 49°C)

PACKAGING: 500' reels

**BRANDING:** Example: Gemini® 1/4" Grade T Fuel Gas Std Duty Max Wp 200 psi Meets RMA IP-7-2008/Cga

E-1. Made In USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 569-618

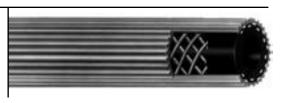
#### **GEMINI® TWIN LINE WELDING GRADE T**

| II   | D   | NOM. OD |      | MAX. WP |      | WEI     | GHT    |
|------|-----|---------|------|---------|------|---------|--------|
| in.  | mm. | in.     | mm.  | psi     | Мра  | lb./ft. | kg./m. |
| 3/16 | 4.8 | 0.44    | 11.2 | 200     | 1.38 | 0.13    | 0.19   |
| 1/4  | 6.4 | 0.53    | 13.5 | 200     | 1.38 | 0.18    | 0.27   |
| 5/16 | 7.9 | 0.59    | 15.0 | 200     | 1.38 | 0.22    | 0.33   |
| 3/8  | 9.5 | 0.66    | 16.8 | 200     | 1.38 | 0.26    | 0.39   |

Note: For Welding Hose Precautions, see Appendix C.



# SINGLE LINE WELDING GRADE R



**Product Specifications** 

**APPLICATION:** For welding service. Meets RMA IP-7 standard for Grade R welding hose.

CONSTRUCTION

**TUBE:** Versigard® synthetic rubber

**COVER:** Versigard synthetic rubber ribbed surface

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE:** -40°F to 120°F (-40°C to 49°C)

PACKAGING: 500' reels

**BRANDING:** Example: 1/4" Grade R Acetylene Only Std Duty Max Wp 200 psi Meets RMA IP-7-2008.

Made In USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 569-591 (red cover) (acetylene)

569-592 (green cover) (oxygen)

#### SINGLE LINE WELDING GRADE R

| I    | ID NOM. |      | . OD MAX. |     | . WP | WEIGHT  |        |
|------|---------|------|-----------|-----|------|---------|--------|
| in.  | mm.     | in.  | mm.       | psi | Мра  | lb./ft. | kg./m. |
| 3/16 | 4.8     | 0.44 | 11.1      | 200 | 1.38 | 0.08    | 0.12   |
| 1/4  | 6.4     | 0.53 | 13.5      | 200 | 1.38 | 0.10    | 0.15   |
| 5/16 | 7.9     | 0.60 | 15.1      | 200 | 1.38 | 0.11    | 0.16   |
| 3/8  | 9.5     | 0.66 | 16.7      | 200 | 1.38 | 0.13    | 0.19   |

Note: For Welding Hose Precautions, see Appendix C.

AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

#### WELDING

COUPLING SYSTEMS



## WELDING

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

#### WELDING

COUPLING SYSTEMS

**APPENDIX** 

# SINGLE LINE WELDING GRADE RM



## **Product Specifications**

 $\otimes$ 

APPLICATION: For welding service. Meets RMA IP-7 standard for Grade RM welding hose.

CONSTRUCTION

**TUBE:** Plioflex® synthetic rubber (non-conductive)

**COVER:** Chemivic<sup>™</sup> synthetic rubber ribbed surface

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE:** -40°F to 120°F (-40°C to 49°C)

PACKAGING: 500' reels

**BRANDING:** Example: 1/4" Grade Rm Oxygen Std Duty Max Wp 200 psi Meets RMA IP-7-2008.

Made In USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

NON-STOCK/SIZES: For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 569-589 (red cover) (acetylene)

569-590 (green cover) (oxygen)

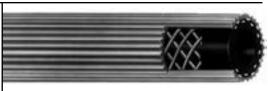
### SINGLE LINE WELDING GRADE RM

| I    | D    | NOM. OD |      | MAX. WP |      | WEIGHT  |        |
|------|------|---------|------|---------|------|---------|--------|
| in.  | mm.  | in.     | mm.  | psi     | Мра  | lb./ft. | kg./m. |
| 3/16 | 4.8  | 0.44    | 11.1 | 200     | 1.38 | 0.08    | 0.12   |
| 1/4  | 6.4  | 0.53    | 13.5 | 200     | 1.38 | 0.10    | 0.15   |
| 5/16 | 7.9  | 0.60    | 15.1 | 200     | 1.38 | 0.12    | 0.18   |
| 3/8  | 9.5  | 0.66    | 16.7 | 200     | 1.38 | 0.13    | 0.19   |
| 1/2  | 12.7 | 0.88    | 22.2 | 200     | 1.38 | 0.27    | 0.40   |

Note: For Welding Hose Precautions, see Appendix C.



# SINGLE LINE WELDING GRADE T





## **Product Specifications**

**APPLICATION:** For welding service. Meets RMA IP-7 and CGA E-1 standards for Grade T welding hose.

Non-conductive.

CONSTRUCTION

TUBE: Wingprene® synthetic rubber compound compatible with all common welding fuel gases

**COVER:** Chemivic<sup>™</sup> synthetic rubber ribbed surface

**REINFORCEMENT:** Spiral synthetic yarn

**TEMPERATURE:** -40°F to 120°F (-40°C to 49°C)

PACKAGING: 500' reels

BRANDING: Example: 1/4" Grade T Fuel Gas Std Duty Max Wp 200 psi Meets RMA IP-7-2008/Cga E-1. Made In

USA. Goodyear®

**COUPLINGS:** Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

**NON-STOCK/SIZES:** For special production run minimum requirements, see Appendix D.

**ORDER CODES:** 569-619 (red cover) (acetylene or other common welding fuel gas)

569-620 (green cover) (oxygen)

#### SINGLE LINE WELDING GRADE T

| I    | D   | NOM  | I. OD | MAX. WP |      | WEIGHT  |        |
|------|-----|------|-------|---------|------|---------|--------|
| in.  | mm. | in.  | mm.   | psi     | Мра  | lb./ft. | kg./m. |
| 3/16 | 4.8 | 0.44 | 11.1  | 200     | 1.38 | 0.08    | 0.12   |
| 1/4  | 6.4 | 0.53 | 13.5  | 200     | 1.38 | 0.10    | 0.15   |
| 5/16 | 7.9 | 0.60 | 15.1  | 200     | 1.38 | 0.12    | 0.18   |
| 3/8  | 9.5 | 0.66 | 16.7  | 200     | 1.38 | 0.14    | 0.21   |

Note: For Welding Hose Precautions, see Appendix C.

AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

#### WELDING

COUPLING SYSTEMS



# COUPLING SYSTEMS

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

APPENDIX

## **COUPLING SYSTEMS**



|  | Page | Aluminum | Stainless Steel | Brass | Carbon Steel | Steel |
|--|------|----------|-----------------|-------|--------------|-------|
| Insta-Lock <sup>™</sup> Dust Cap   | 256  | Yes      | Yes             | Yes   |              |       |
| Insta-Lock™ Dust Plug  | 257  | Yes      | Yes             | Yes   |              |       |
| Insta-Lock <sup>™</sup> Gaskets  | 259  |          |                 |       |              |       |
| Insta-Lock <sup>™</sup> Interlocking Ferrules                            | 260  |          | Yes             |       | Yes          |       |
| Insta-Lock™ Interlocking Stainless Steel<br>Male NPT Hose Stem           | 255  |          | Yes             |       |              |       |
| Insta-Lock™ Repair Kits  | 258  |          | Yes             | Yes   |              |       |
| Insta-Lock™ Type A   | 249  | Yes      | Yes             | Yes   |              |       |
| Insta-Lock™ Type B   | 250  | Yes      | Yes             | Yes   |              |       |
| Insta-Lock™ Type C   | 251  | Yes      | Yes             | Yes   |              |       |
| Insta-Lock™ Type D   | 252  | Yes      | Yes             | Yes   |              |       |
| Insta-Lock™ Type E   | 253  | Yes      | Yes             | Yes   |              |       |
| Insta-Lock™ Type F   | 254  | Yes      | Yes             | Yes   |              |       |
| Pressure Washer Fittings   | 262  |          |                 |       |              | Yes   |
| Stainless Steel & Aluminum Crimp Sleeves for Infinity™ and Paladin® Hose | 261  | Yes      | Yes             |       |              |       |



# COUPLING SYSTEMS

## INSTA-LOCK™ TYPE A MALE ADAPTER X FEMALE NPT THREAD



**Product Specifications** 

APPLICATION: Type A fitting is commonly threaded onto a pipe, threaded hose end or manifold system, which is

connected and disconnected on a regular basis. Insta-Lock™ fittings are designed for liquids and dry bulk. Consult the chemical resistance guide for specific chemical recommendations.

MATERIALS: Aluminum, 316# Stainless Steel and Brass

PRESSURE RATING: Sizes 1/2" – 2", 250 PSI; sizes 2½" – 4", 150 PSI; sizes 5" – 6", 75 PSI. Recommended working

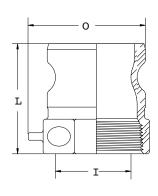
pressure ratings based on ambient temperature (70°F).

**BRANDING:** Example: Goodyear® A200SS

ORDER CODES: 650-825 (aluminum) 650-833 (brass)

650-841 (stainless steel)

#### INSTA-LOCK™ TYPE A MALE ADAPTER X FEMALE NPT THREAD



| SIZE | ALUMINUM | STAINLESS STEEL | BRASS  |
|------|----------|-----------------|--------|
| 1/2  | A050AL   | A050SS          | A050BR |
| 3/4  | A075AL   | A075SS          | A075BR |
| 1    | A100AL   | A100SS          | A100BR |
| 11/4 | A125AL   | A125SS          | A125BR |
| 1½   | A150AL   | A150SS          | A150BR |
| 2    | A200AL   | A200SS          | A200BR |
| 2½   | A250AL   | A250SS          | A250BR |
| 3    | A300AL   | A300SS          | A300BR |
| 4    | A400AL   | A400SS          | A400BR |
| 5    | A500AL   | A500SS          | A500BR |
| 6    | A600AL   | A600SS          | A600BR |

|      |   | 0                     | AUUUAL                              | A00033 |   | AOOODIN           |  |
|------|---|-----------------------|-------------------------------------|--------|---|-------------------|--|
| SIZE | DISTANCE CHAIN LUG<br>EXTENDS FROM BODY | OVERALL<br>LENGTH (L) | MAXIMUM WIDTH<br>ACROSS ADAPTER (0) |        | N | IINIMUM<br>ID (I) |  |
| in.  | in.                                     | in.                   |                                     | in.    |   | in.               |  |
| 1/2  | 0.375                                   | 1.656                 |                                     | 1.500  |   | 0.500             |  |
| 3/4  | 0.375                                   | 1.656                 |                                     | 1.688  |   | 0.781             |  |
| 1    | 0.375                                   | 2.163                 |                                     | 1.804  |   | 0.875             |  |
| 11/4 | 0.375                                   | 2.437                 |                                     | 2.237  |   | 1.063             |  |
| 1½   | 0.375                                   | 2.531                 |                                     | 2.368  |   | 1.375             |  |
| 2    | 0.375                                   | 2.781                 |                                     | 2.909  |   | 1.750             |  |
| 2½   | 0.375                                   | 3.093                 |                                     | 3.585  |   | 2.187             |  |
| 3    | 0.375                                   | 3.281                 |                                     | 4.009  |   | 2.812             |  |
| 4    | 0.375                                   | 3.528                 |                                     | 5.257  |   | 3.750             |  |
| 5    | 0.375                                   | 3.813                 |                                     | 6.438  |   | 4.688             |  |
| 6    | 0.375                                   | 3.656                 |                                     | 7.688  |   | 5.750             |  |

Note: Goodyear Engineered Products Insta-Lock Fittings are never to be used in steam or compressed air service.



AIR & **MULTIPURPOSE** Heavy Duty

> **CHEMICAL** TRANSFER

**CLEANING EQUIPMENT** 

> FOOD Transfer

> > MARINE

MATERIAL HANDLING Bulk Transfer Cement & Concrete

MINING

PETROLEUM Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

Suction &

WELDING

COUPLING **SYSTEMS** 

# COUPLING SYSTEMS

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

#### MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

# INSTA-LOCK™ TYPE B FEMALE COUPLER X MALE NPT THREAD



### **Product Specifications**

APPLICATION: Type B fitting is normally threaded onto a pipe or manifold which joins to a rubber hose assembly

which is connected and disconnected regularly. Insta-Lock™ fittings are designed for liquids and dry bulk. Consult the chemical resistance guide for specific chemical recommendations.

MATERIALS: Aluminum, 316# Stainless Steel and Brass

PRESSURE RATING: Sizes 1/2" – 2", 250 PSI; sizes 2½" – 4", 150 PSI; sizes 5" – 6", 75 PSI. Recommended working

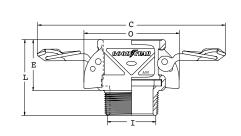
pressure ratings based on ambient temperature (70°F) with Standard Nitrile gaskets.

**BRANDING:** Example: Goodyear® B200SS

**ORDER CODES:** 650-826 (aluminum) 650-834 (brass)

650-842 (stainless steel)

### INSTA-LOCK™ TYPE B FEMALE COUPLER X MALE NPT THREAD



|  | SIZE | ALUMINUM | STAINLESS STEEL | BRASS  |
|--|------|----------|-----------------|--------|
|  | 1/2  | B050AL   | B050SS          | B050BR |
|  | 3/4  | B075AL   | B075SS          | B075BR |
|  | 1    | B100AL   | B100SS          | B100BR |
|  | 11/4 | B125AL   | B125SS          | B125BR |
|  | 1½   | B150AL   | B150SS          | B150BR |
|  | 2    | B200AL   | B200SS          | B200BR |
|  | 2½   | B250AL   | B250SS          | B250BR |
|  | 3    | B300AL   | B300SS          | B300BR |
|  | 4    | B400AL   | B400SS          | B400BR |
|  | 5    | B500AL   | B500SS          | B500BR |
|  | 6    | B600AL   | B600SS          | B600BR |

| SIZE | MAX WIDTH WITH CAM<br>ARMS CLOSED (0) | OVERALL<br>LENGTH (L) | EXPOSED<br>LENGTH (E) | MINIMUM<br>ID (I) | MAX WIDTH WITH CAM<br>ARMS EXTENDED (C) |
|------|---------------------------------------|-----------------------|-----------------------|-------------------|---|
| in.  | in.                                   | in.                   | in.                   | in.               | in.                                     |
| 1/2  | 2.469                                 | 1.906                 | 1.188                 | 0.469             | 4.969                                   |
| 3/4  | 2.781                                 | 2.031                 | 1.313                 | 0.688             | 5.261                                   |
| 1    | 2.920                                 | 2.500                 | 1.625                 | 0.875             | 5.367                                   |
| 11/4 | 3.510                                 | 2.937                 | 2.000                 | 1.063             | 7.669                                   |
| 1½   | 3.830                                 | 2.937                 | 2.000                 | 1.375             | 7.967                                   |
| 2    | 4.210                                 | 3.218                 | 2.156                 | 1.750             | 8.340                                   |
| 2½   | 4.720                                 | 3.718                 | 2.250                 | 2.187             | 8.837                                   |
| 3    | 5.680                                 | 4.000                 | 2.468                 | 2.812             | 10.435                                  |
| 4    | 6.780                                 | 4.218                 | 2.593                 | 3.750             | 11.538                                  |
| 5    | 7.813                                 | 4.406                 | 2.625                 | 4.688             | 12.571                                  |
| 6    | 9.344                                 | 4.750                 | 2.844                 | 5.750             | 16.096                                  |

Note: Goodyear Engineered Products Insta-Lock Fittings are never to be used in steam or compressed air service. Goodyear Engineered Products Insta-Lock Cam Arms are designed exclusively for Insta-Lock fittings.





#### INSTA-LOCK<sup>™</sup> TYPE C FEMALE COUPLER X HOSE SHANK



**Product Specifications** 

APPLICATION: Type C fitting can be attached to a rubber hose with the use of interlocking ferrules, crimp

sleeves, or bands. Insta-Lock™ fittings are designed for liquids and dry bulk. Consult the

chemical resistance guide for specific chemical recommendations.

MATERIALS: Aluminum, 316# Stainless Steel and Brass

PRESSURE RATING: Sizes 1/2" – 2", 250 PSI; sizes 2½" – 4", 150 PSI; sizes 5" – 6", 75 PSI. Recommended working

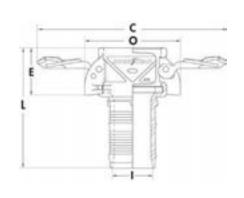
pressure ratings based on ambient temperature (70°F) with Standard Nitrile gaskets.

**BRANDING:** Example: Goodyear® C200SS

**ORDER CODES:** 650-827 (aluminum) 650-835 (brass)

650-843 (stainless steel)

#### INSTA-LOCK™ TYPE C FEMALE COUPLER X HOSE SHANK



| SIZE | ALUMINUM | STAINLESS STEEL | BRASS  |
|------|----------|-----------------|--------|
| 1/2  | C050AL   | C050SS          | C050BR |
| 3/4  | CO75AL   | C075SS          | C075BR |
| 1    | C100AL   | C100SS          | C100BR |
| 11/4 | C125AL   | C125SS          | C125BR |
| 1½   | C150AL   | C150SS          | C150BR |
| 2    | C200AL   | C200SS          | C200BR |
| 2½   | C250AL   | C250SS          | C250BR |
| 3    | C300AL   | C300SS          | C300BR |
| 4    | C400AL   | C400SS          | C400BR |
| 5    | C500AL   | C500SS          | C500BR |
| 6    | C600AL   | C600SS          | C600BR |

|      |                                       |                       | 00007                 |                   | CCCCBIT                                 |
|------|---------------------------------------|-----------------------|-----------------------|-------------------|---|
| SIZE | MAX WIDTH WITH CAM<br>ARMS CLOSED (0) | OVERALL<br>LENGTH (L) | EXPOSED<br>LENGTH (E) | MINIMUM<br>ID (I) | MAX WIDTH WITH CAM<br>ARMS EXTENDED (C) |
| in.  | in.                                   | in.                   | in.                   | in.               | in.                                     |
| 1/2  | 2.469                                 | 3.063                 | 1.188                 | 0.260             | 4.969                                   |
| 3/4  | 2.781                                 | 3.656                 | 1.313                 | 0.490             | 5.261                                   |
| 1    | 2.920                                 | 4.250                 | 1.975                 | 0.718             | 5.367                                   |
| 11/4 | 3.510                                 | 4.625                 | 2.350                 | 0.906             | 7.669                                   |
| 1½   | 3.830                                 | 4.750                 | 2.370                 | 1.156             | 7.967                                   |
| 2    | 4.210                                 | 5.281                 | 2.531                 | 1.625             | 8.340                                   |
| 2½   | 4.720                                 | 5.750                 | 2.625                 | 2.093             | 8.837                                   |
| 3    | 5.680                                 | 6.840                 | 2.849                 | 2.560             | 10.435                                  |
| 4    | 6.780                                 | 7.218                 | 2.994                 | 3.468             | 11.538                                  |
| 5    | 7.813                                 | 7.563                 | 2.625                 | 4.469             | 12.571                                  |
| 6    | 9.344                                 | 8.969                 | 2.844                 | 5.469             | 16.096                                  |

Note: Goodyear Engineered Products Insta-Lock Fittings are never to be used in steam or compressed air service. Goodyear Engineered Products Insta-Lock Cam Arms are designed exclusively for Insta-Lock fittings.



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

#### MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdawn

WELDING

COUPLING SYSTEMS

#### APPENDIX

# INSTA-LOCK™ TYPE D FEMALE COUPLER X FEMALE NPT THREAD



#### **Product Specifications**

APPLICATION: Type D fitting is commonly threaded onto a pipe, threaded hose end or manifold system, which is

connected and disconnected on a regular basis. Insta-Lock™ fittings are designed for liquids and dry bulk. Consult the chemical resistance guide for specific chemical recommendations.

MATERIALS: Aluminum, 316# Stainless Steel and Brass

**PRESSURE RATING:** Sizes 1"-2", 250 PSI; sizes  $2\frac{1}{2}"-4"$ , 150 PSI; sizes 5"-6", 75 PSI. Recommended working

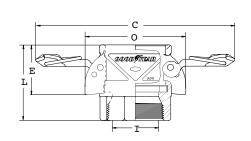
pressure ratings based on ambient temperature (70°F) with Standard Nitrile gaskets.

**BRANDING:** Example: Goodyear® D200SS

**ORDER CODES:** 650-828 (aluminum) 650-836 (brass)

650-844 (stainless steel)

#### INSTA-LOCK™ TYPE D FEMALE COUPLER X FEMALE NPT THREAD



| SIZE | ALUMINUM | STAINLESS STEEL | BRASS  |
|------|----------|-----------------|--------|
| 1/2  | D050AL   | D050SS          | D050BR |
| 3/4  | D075AL   | D075SS          | D075BR |
| 1    | D100AL   | D100SS          | D100BR |
| 11/4 | D125AL   | D125SS          | D125BR |
| 1½   | D150AL   | D150SS          | D150BR |
| 2    | D200AL   | D200SS          | D200BR |
| 2½   | D250AL   | D250SS          | D250BR |
| 3    | D300AL   | D300SS          | D300BR |
| 4    | D400AL   | D400SS          | D400BR |
| 5    | D500AL   | D500SS          | D500BR |
| 6    | D600AL   | D600SS          | D600BR |

| SIZE | MAX WIDTH WITH CAM<br>ARMS CLOSED (0) | OVERALL<br>LENGTH (L) | EXPOSED<br>LENGTH (E) | MINIMUM<br>ID (I) | MAX WIDTH WITH CAM<br>ARMS EXTENDED (C) |
|------|---------------------------------------|-----------------------|-----------------------|-------------------|---|
| in.  | in.                                   | in.                   | in.                   | in.               | in.                                     |
| 1/2  | 2.469                                 | 1.813                 | 1.188                 | 0.656             | 4.969                                   |
| 3/4  | 2.781                                 | 2.063                 | 1.313                 | 0.813             | 5.261                                   |
| 1    | 2.920                                 | 2.375                 | 1.975                 | 1.000             | 5.367                                   |
| 11/4 | 3.510                                 | 2.687                 | 2.350                 | 1.300             | 7.669                                   |
| 1½   | 3.830                                 | 2.843                 | 2.370                 | 1.560             | 7.967                                   |
| 2    | 4.210                                 | 3.156                 | 2.531                 | 1.937             | 8.340                                   |
| 21/2 | 4.720                                 | 3.437                 | 2.625                 | 2.312             | 8.837                                   |
| 3    | 5.680                                 | 3.718                 | 2.849                 | 2.937             | 10.435                                  |
| 4    | 6.780                                 | 4.030                 | 2.994                 | 3.750             | 11.538                                  |
| 5    | 7.813                                 | 4.313                 | 2.563                 | 4.688             | 12.571                                  |
| 6    | 9.344                                 | 4.513                 | 2.719                 | 5.750             | 16.096                                  |

Note: Goodyear Engineered Products Insta-Lock Fittings are never to be used in steam or compressed air service. Goodyear Engineered Products Insta-Lock Cam Arms are designed exclusively for Insta-Lock fittings.



#### INSTA-LOCK™ TYPE E MALE ADAPTER X HOSE SHANK



**Product Specifications** 

**APPLICATION:** Type E fitting can be attached to a rubber hose with the use of interlocking ferrules, crimp sleeve

and bands. Insta-Lock™ fittings are designed for liquids and dry bulk. Consult the chemical

resistance guide for specific chemical recommendations.

MATERIALS: Aluminum, 316# Stainless Steel and Brass

**PRESSURE RATING:** Sizes 1" – 2", 250 PSI; sizes 21/2" – 4", 150 PSI; sizes 5" – 6", 75 PSI. Recommended working

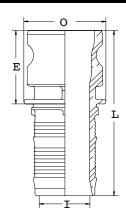
pressure ratings based on ambient temperature (70°F).

**BRANDING:** Example: Goodyear® E200SS

**ORDER CODES:** 650-829 (aluminum) 650-837 (brass)

650-845 (stainless steel)

#### INSTA-LOCK™ TYPE E MALE ADAPTER X HOSE SHANK



| SIZE | ALUMINUM | STAINLESS STEEL | BRASS  |
|------|----------|-----------------|--------|
| 1/2  | E050AL   | E050SS          | E050BR |
| 3/4  | E075AL   | E075SS          | E075BR |
| 1    | E100AL   | E100SS          | E100BR |
| 11/4 | E125AL   | E125SS          | E125BR |
| 1½   | E150AL   | E150SS          | E150BR |
| 2    | E200AL   | E200SS          | E200BR |
| 2½   | E250AL   | E250SS          | E250BR |
| 3    | E300AL   | E300SS          | E300BR |
| 4    | E400AL   | E400SS          | E400BR |
| 5    | E500AL   | E500SS          | E500BR |
| 6    | E600AL   | E600SS          | E600BR |

| SIZE | MAXIMUM<br>OD (0) | OVERALL<br>LENGTH (L) | EXPOSED<br>LENGTH (E) | MINIMUM<br>ID (I) |
|------|-------------------|-----------------------|-----------------------|-------------------|
| in.  | in.               | in.                   | in.                   | in.               |
| 1/2  | 1.188             | 3.500                 | 1.625                 | 0.260             |
| 3/4  | 1.262             | 3.969                 | 1.625                 | 0.490             |
| 1    | 1.625             | 4.569                 | 1.944                 | 0.718             |
| 11/4 | 2.000             | 4.812                 | 2.187                 | 0.906             |
| 1½   | 2.312             | 5.000                 | 2.250                 | 1.156             |
| 2    | 2.687             | 5.625                 | 2.500                 | 1.625             |
| 2½   | 3.062             | 6.187                 | 2.687                 | 2.093             |
| 3    | 3.781             | 7.125                 | 2.750                 | 2.562             |
| 4    | 4.875             | 7.434                 | 2.809                 | 3.468             |
| 5    | 6.563             | 7.844                 | 2.906                 | 4.469             |
| 6    | 7.125             | 9.188                 | 3.063                 | 5.469             |

Note: Goodyear Engineered Products Insta-Lock Fittings are never to be used in steam or compressed air service.



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives

Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

#### MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

## COUPLING SYSTEMS

# INSTA-LOCK<sup>™</sup> TYPE F MALE ADAPTER X MALE NPT THREAD



#### **Product Specifications**

**APPLICATION:** Type F fitting is normally threaded into pipe or manifold connections and mated with Part C, Part

B, or Part D. Used in applications that require frequent connections. Insta-Lock™ fittings are designed for liquids and dry bulk. Consult the chemical resistance guide for specific chemical

recommendations.

MATERIALS: Aluminum, 316# Stainless Steel and Brass

**PRESSURE RATING:** Sizes 1/2" – 2", 250 PSI; sizes 2½" – 4", 150 PSI; sizes 5" – 6", 75 PSI. Recommended working

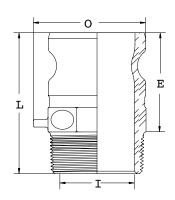
pressure ratings based on ambient temperature (70°F).

**BRANDING:** Example: Goodyear® F200SS

**ORDER CODES:** 650-830 (aluminum) 650-838 (brass)

650-846 (stainless steel)

#### INSTA-LOCK™ TYPE F MALE ADAPTER X MALE NPT THREAD



| SIZE | ALUMINUM | STAINLESS STEEL | BRASS  |
|------|----------|-----------------|--------|
| 1/2  | F050AL   | F050SS          | F050BR |
| 3/4  | F075AL   | F075SS          | F075BR |
| 1    | F100AL   | F100SS          | F100BR |
| 11/4 | F125AL   | F125SS          | F125BR |
| 1½   | F150AL   | F150SS          | F150BR |
| 2    | F200AL   | F200SS          | F200BR |
| 2½   | F250AL   | F250SS          | F250BR |
| 3    | F300AL   | F300SS          | F300BR |
| 4    | F400AL   | F400SS          | F400BR |
| 5    | F500AL   | F500SS          | F500BR |
| 6    | F600AL   | F600SS          | F600BR |

| SIZE | MAXIMUM WIDTH<br>ACROSS ADAPTER (0) | OVERALL<br>LENGTH (L) | EXPOSED<br>LENGTH (E) | MINIMUM<br>ID (I) | DISTANCE CHAIN LUG<br>EXTENDS FROM BOD (C) |
|------|-------------------------------------|-----------------------|-----------------------|-------------------|--|
| in.  | in.                                 | in.                   | in.                   | in.               | in.  |
| 1/2  | 1.150                               | 2.250                 | 1.531                 | 0.469             | 0.375                                      |
| 3/4  | 1.688                               | 2.375                 | 1.656                 | 0.688             | 0.375                                      |
| 1    | 1.730                               | 2.819                 | 2.038                 | 0.875             | 0.375                                      |
| 11/4 | 2.130                               | 3.156                 | 2.279                 | 1.187             | 0.375                                      |
| 1½   | 2.300                               | 3.222                 | 2.347                 | 1.437             | 0.375                                      |
| 2    | 2.909                               | 3.593                 | 2.596                 | 1.750             | 0.375                                      |
| 21/2 | 3.281                               | 4.218                 | 2.812                 | 2.187             | 0.375                                      |
| 3    | 3.844                               | 4.343                 | 2.875                 | 2.812             | 0.375                                      |
| 4    | 4.994                               | 4.746                 | 3.184                 | 3.734             | 0.375                                      |
| 5    | 6.188                               | 4.906                 | 3.125                 | 4.688             | 0.375                                      |
| 6    | 7.500                               | 5.219                 | 3.313                 | 5.750             | 0.375                                      |

Note: Goodyear Engineered Products Insta-Lock Fittings are never to be used in steam or compressed air service. Goodyear Engineered Products Insta-Lock Cam Arms are designed exclusively for Insta-Lock fittings.



#### INSTA-LOCK<sup>™</sup> INTERLOCKING STAINLESS STEEL MALE NPT HOSE STEM



#### **Product Specifications**

APPLICATION: Interlocking Stainless Steel Male NPT Hose Stem fittings are designed to be attached to a rubber

hose with the use of a Goodyear Engineered Products Insta-Lock™ Ferrule. Consult the chemical

resistance guide for specific chemical resistance recommendations.

MATERIALS: 316# Stainless Steel

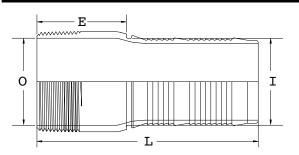
PRESSURE RATING: Sizes 1" to 2" 250 PSI, 2½" to 4" 150 PSI. Recommended working pressure ratings based on

ambient temperature (70°F)

**BRANDING:** Example: Goodyear® GTM200SS

**ORDER CODES:** 604-824 (stainless steel)

#### INSTA-LOCK™ INTERLOCKING STAINLESS STEEL MALE NPT HOSE STEM



| SIZE | STAINLESS STEEL |
|------|-----------------|
| 1    | GTM100SS        |
| 11/4 | GTM125SS        |
| 1½   | GTM150SS        |
| 2    | GTM200SS        |
| 21/2 | GTM250SS        |
| 3    | GTM300SS        |
| 4    | GTM400SS        |

| SIZE | MAXIMUM<br>OD (0) | OVERALL<br>LENGTH (L) | EXPOSED<br>Length (E) | MINIMUM<br>ID (I) |
|------|-------------------|-----------------------|-----------------------|-------------------|
| in.  | in.               | in.                   | in.                   | in.               |
| 1    | 1.315             | 4.375                 | 1.750                 | 0.830             |
| 11/4 | 1.660             | 4.500                 | 1.875                 | 1.130             |
| 1½   | 1.900             | 4.750                 | 2.000                 | 1.360             |
| 2    | 2.375             | 5.250                 | 2.125                 | 1.820             |
| 21/2 | 2.875             | 6.125                 | 2.625                 | 2.240             |
| 3    | 3.500             | 7.000                 | 2.625                 | 2.730             |
| 4    | 4.500             | 7.625                 | 3.000                 | 3.710             |

Note: Goodyear Engineered Products Insta-Lock Fittings are never to be used in steam or compressed air service.

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

#### MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdowr

WELDING

COUPLING SYSTEMS

#### APPENDIX

#### INSTA-LOCK™ DUST CAP



#### **Product Specifications**

APPLICATION: Dust cap is used to seal the pipe system and hose assemblies during non-use or transfer of

assembly. Mating parts are the Part A, Part E and Part F.

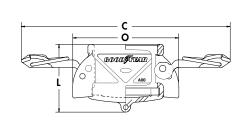
MATERIALS: Aluminum, 316# Stainless Steel and Brass (standard Nitrile gasket)

**BRANDING:** Example: Goodyear® DC200SS

**ORDER CODES:** 650-831 (aluminum) 650-839 (brass)

650-847 (stainless steel)

#### INSTA-LOCK™ DUST CAP



| SIZE | ALUMINUM | STAINLESS STEEL | BRASS   |
|------|----------|-----------------|---------|
| 1/2  | DC050AL  | DC050SS         | DC050BR |
| 3/4  | DC075AL  | DC075SS         | DC075BR |
| 1    | DC100AL  | DC100SS         | DC100BR |
| 11/4 | DC125AL  | DC125SS         | DC125BR |
| 1½   | DC150AL  | DC150SS         | DC150BR |
| 2    | DC200AL  | DC200SS         | DC200BR |
| 2½   | DC250AL  | DC250SS         | DC250BR |
| 3    | DC300AL  | DC300SS         | DC300BR |
| 4    | DC400AL  | DC400SS         | DC400BR |
| 5    | DC500AL  | DC500SS         | DC500BR |
| 6    | DC600AL  | DC600SS         | DC600BR |

| SIZE | MAX WIDTH WITH CAM<br>ARMS CLOSED (0) | OVERALL<br>LENGTH (L) | OD WITH CAM ARMS<br>EXTENDED (C) | DISTANCE CHAIN LUG<br>EXTENDS FROM BODY |
|------|---------------------------------------|-----------------------|----------------------------------|---|
| in.  | in.                                   | in.                   | in.                              | in.                                     |
| 1/2  | 2.469                                 | 1.625                 | 4.969                            | 0.375                                   |
| 3/4  | 2.781                                 | 1.625                 | 5.261                            | 0.375                                   |
| 1    | 2.920                                 | 2.086                 | 5.367                            | 0.375                                   |
| 11/4 | 3.510                                 | 2.360                 | 7.669                            | 0.375                                   |
| 1½   | 3.830                                 | 2.400                 | 7.967                            | 0.375                                   |
| 2    | 4.210                                 | 2.633                 | 8.340                            | 0.375                                   |
| 2½   | 4.720                                 | 2.786                 | 8.837                            | 0.375                                   |
| 3    | 5.680                                 | 2.957                 | 10.435                           | 0.375                                   |
| 4    | 6.780                                 | 3.134                 | 11.538                           | 0.375                                   |
| 5    | 7.813                                 | 3.219                 | 12.571                           | 0.375                                   |
| 6    | 9.344                                 | 3.500                 | 16.096                           | 0.375                                   |

Note: Goodyear Engineered Products Insta-Lock Fittings are never to be used in steam or compressed air service. Goodyear Engineered Products Insta-Lock Cam Arms are designed exclusively for Insta-Lock fittings.

Warning: Dust Caps and Dust Plugs are not to be used in pressure applications for safety and environmental reasons.



#### INSTA-LOCK™ DUST PLUG



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING

Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

Discharge
Suction &
Discharge

WELDING

COUPLING

SYSTEMS

APPENDIX

#### **Product Specifications**

APPLICATION: Dust plug is used to seal the pipe system and hose assemblies during non-use or transfer of

assembly. Mating parts are the Part C, Part B and Part D.

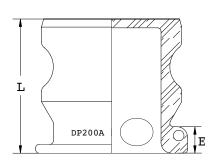
MATERIALS: Aluminum, 316# Stainless Steel and Brass

**BRANDING:** Example: Goodyear® DP200SS

**ORDER CODES:** 650-832 (aluminum) 650-840 (brass)

650-848 (stainless steel)

#### INSTA-LOCK™ DUST PLUG



| SIZE | ALUMINUM | STAINLESS STEEL | BRASS   |
|------|----------|-----------------|---------|
| 1/2  | DP050AL  | DP050SS         | DP050BR |
| 3/4  | DP075AL  | DP075SS         | DP075BR |
| 1    | DP100AL  | DP100SS         | DP100BR |
| 11/4 | DP125AL  | DP125SS         | DP125BR |
| 1½   | DP150AL  | DP150SS         | DP150BR |
| 2    | DP200AL  | DP200SS         | DP200BR |
| 2½   | DP250AL  | DP250SS         | DP250BR |
| 3    | DP300AL  | DP300SS         | DP300BR |
| 4    | DP400AL  | DP400SS         | DP400BR |
| 5    | DP500AL  | DP500SS         | DP500BR |
| 6    | DP600AL  | DP600SS         | DP600BR |

|      | 0 5.00             | 57.12 BY 00000 BY 000BY |
|------|--------------------|-------------------------|
| SIZE | OVERALL LENGTH (L) | EXPOSED LENGTH (E)      |
| in.  | in.                | in.                     |
| 1/2  | 1.531              | 0.500                   |
| 3/4  | 1.563              | 0.500                   |
| 1    | 1.843              | 0.469                   |
| 11/4 | 2.125              | 0.469                   |
| 1½   | 2.156              | 0.469                   |
| 2    | 2.375              | 0.469                   |
| 2½   | 2.437              | 0.469                   |
| 3    | 2.500              | 0.469                   |
| 4    | 2.559              | 0.469                   |
| 5    | 2.594              | 0.469                   |
| 6    | 2.781              | 0.469                   |

Note: Goodyear Engineered Products Fittings are never to be used in steam or compressed air service.

Warning: Dust Caps and Dust Plugs are not to be used in pressure applications for safety and environmental reasons.



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

APPENDIX

#### INSTA-LOCK™ REPAIR KITS



#### **Product Specifications**

APPLICATION: 316# Stainless Steel and Brass

MATERIALS: 1 handle, 1 finger ring, 1 pin

**ORDER CODES:** 605-855 (stainless steel) 605-856 (brass)

**PART NUMBER SYSTEM:** First 3 digits = Size

S = Stainless Steel

B = Brass

G = Goodyear Insta-Lock Handle

M = Music Wire Ring

P = Pin

| INSTA-LOCK™ REPAIR KITS |                         |               |  |  |
|-------------------------|-------------------------|---------------|--|--|
| SIZE                    | STAINLESS STEEL HANDLES | BRASS HANDLES |  |  |
| in.                     | in.                     | in.           |  |  |
| 1/2                     | 050SGMP                 | 050BGMP       |  |  |
| 3/4                     | 100SGMP                 | 100BGMP       |  |  |
| 1                       | 100SGMP                 | 100BGMP       |  |  |
| 11/4                    | 125SGMP                 | 125BGMP       |  |  |
| 1½                      | 150SGMP                 | 150BGMP       |  |  |
| 2                       | 200SGMP                 | 200BGMP       |  |  |
| 2½                      | 250SGMP                 | 250BGMP       |  |  |
| 3                       | 300SGMP                 | 300BGMP       |  |  |
| 4                       | 300SGMP                 | 300BGMP       |  |  |
| 5                       | 300SGMP                 | 300BGMP       |  |  |
| 6                       | 600SGMP                 | 600BGMP       |  |  |



#### INSTA-LOCK™ GASKETS



#### **Product Specifications**

MATERIALS: Nitrile, Viton, Teflon Encapsulated Viton, White Neoprene, Neoprene, Silicone

 ORDER CODES:
 650-849 (Nitrile)
 650-850 (Viton®)
 650-851 (Teflon®)

 650-852 (White Neoprene)
 650-853 (Neoprene)
 650-854 (Silicone)

**PART NUMBER SYSTEM:** G = Gasket

First 3 digits = Size of Gasket Letters = Gasket Material Code AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

#### MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

#### MINING

PETROLEUM Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

VEYANCE

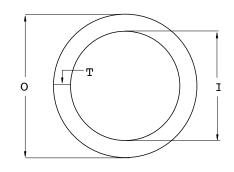
WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

APPENDIX

#### INSTA-LOCK™ GASKETS



| SIZE | OD (O) | ID (I) | THICKNESS (T) |
|------|--------|--------|---------------|
| 1/2  | 1.031  | 0.688  | 0.156         |
| 3/4  | 1.375  | 0.875  | 0.218         |
| 1    | 1.563  | 1.062  | 0.250         |
| 11/4 | 1.938  | 1.359  | 0.250         |
| 1½   | 2.188  | 1.625  | 0.250         |
| 2    | 2.625  | 2.000  | 0.250         |
| 2½   | 3.125  | 2.375  | 0.250         |
| 3    | 3.719  | 3.000  | 0.250         |
| 4    | 4.875  | 4.000  | 0.250         |
| 5    | 5.906  | 4.875  | 0.250         |
| 6    | 7.063  | 6.000  | 0.250         |

|      |         |        | -                               | 7.000             | 0.000    | 0.200    |
|------|---------|--------|---------------------------------|-------------------|----------|----------|
| SIZE | NITRILE | VITON  | TEFLON<br>ENCAPSULATED<br>VITON | WHITE<br>NEOPRENE | NEOPRENE | SILICONE |
| in.  | in.     | in.    | in.                             | in.               | in.      | in.      |
| 1/2  | G050BN  | G050VT | G050TE                          | G050WN            | G050NE   | G050SL   |
| 3/4  | G075BN  | G075VT | G075TE                          | G075WN            | G075NE   | G075SL   |
| 1    | G100BN  | G100VT | G100TE                          | G100WN            | G100NE   | G100SL   |
| 11/4 | G125BN  | G125VT | G125TE                          | G125WN            | G125NE   | G125SL   |
| 1½   | G150BN  | G150VT | G150TE                          | G150WN            | G150NE   | G150SL   |
| 2    | G200BN  | G200VT | G200TE                          | G200WN            | G200NE   | G200SL   |
| 2½   | G250BN  | G250VT | G250TE                          | G250WN            | G250NE   | G250SL   |
| 3    | G300BN  | G300VT | G300TE                          | G300WN            | G300NE   | G300SL   |
| 4    | G400BN  | G400VT | G400TE                          | G400WN            | G400NE   | G400SL   |
| 5    | G500BN  | G500VT | G500TE                          | G500WN            | G500NE   | G500SL   |
| 6    | G600BN  | G600VT | G600TE                          | G600WN            | G600NE   | G600SL   |

Nitrile = BN; Black Teflon = TE; White/Black with yellow stripe  $\begin{aligned} \text{Neoprene} &= \text{NE; Black with red stripe} \\ \text{Viton} &= \text{VT; Black with yellow stripe} \end{aligned}$ 

White Neoprene = WN; White Silicone = SL; Red

Viton® is a registered trademark of DuPont Dow Elastomers L.L.C. Teflon® is a registed trademark of E.I. du Pont de Nemours and Company.



AIR & **MULTIPURPOSE** Heavy Duty

**CHEMICAL TRANSFER** 

**EQUIPMENT** 

FOOD Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER Suction & Washdown

WELDING

**COUPLING SYSTEMS** 

**APPENDIX** 

## INSTA-LOCK™ INTERLOCKING FERRULES



#### **Product Specifications**

MATERIALS: 304# Stainless Steel

Plated Carbon Steel

PART NUMBER SYSTEM: FRSS200244 or FRCS200244

FR = Ferrule; SS = Stainless Steel; CS = Plated Carbon Steel

First 3 digits = Inside Diameter of Hose

Fourth digit = Inside Diameter of Ferrule in inches.

Fifth & sixth digits = Inside Diameter of Ferrule in 64ths of an inch.

#### INSTA-LOCK™ INTERLOCKING FERRULES

|     | STAINLESS STEEL |     |            |    |            | PLATE | CARBON STEEL |
|-----|-----------------|-----|------------|----|------------|-------|--------------|
| 1"  | FRSS100124      | 2"  | FRSS200232 | 3" | FRSS300332 | 1½"   | FRCS150208   |
|     | FRSS100128      |     | FRSS200236 |    | FRSS300336 |       | FRCS150212   |
|     | FRSS100132      |     | FRSS200240 |    | FRSS300340 |       | FRCS150216   |
|     | FRSS100136      |     | FRSS200244 |    | FRSS300344 |       |              |
|     | FRSS100140      |     | FRSS200248 |    | FRSS300348 | 2"    | FRCS200232   |
|     |                 |     | FRSS200252 |    | FRSS300352 |       | FRCS200236   |
| 1¼" | FRSS125144      |     | FRSS200256 |    | FRSS300356 |       | FRCS200240   |
|     | FRSS125148      |     | FRSS200260 |    | FRSS300360 |       | FRCS200244   |
|     | FRSS125152      |     |            |    | FRSS300400 |       | FRCS200248   |
|     | FRSS125156      | 2½" | FRSS250256 |    | FRSS300404 |       |              |
|     |                 |     | FRSS250260 |    |            | 3"    | FRCS300336   |
| 1½" | FRSS150156      |     | FRSS250300 | 4" | FRSS400436 |       | FRCS300340   |
|     | FRSS150160      |     | FRSS250304 |    | FRSS400440 |       | FRCS300344   |
|     | FRSS150200      |     | FRSS250308 |    | FRSS400444 |       | FRCS300348   |
|     | FRSS150204      |     | FRSS250312 |    | FRSS400448 |       |              |
|     | FRSS150208      |     | FRSS250316 |    | FRSS400452 | 4"    | FRCS400444   |
|     | FRSS150212      |     | FRSS250320 |    | FRSS400456 |       | FRCS400448   |
|     | FRSS150216      |     | FRSS250324 |    | FRSS400460 |       | FRCS400452   |
|     | FRSS150220      |     |            |    | FRSS400500 |       |              |
|     |                 |     |            |    | FRSS400504 |       |              |



# STAINLESS STEEL & ALUMINUM CRIMP SLEEVES FOR INFINITY PALADIN® HOSES



AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

#### **Product Specifications**

MATERIALS: 304# Stainless Steel Aluminum

PART NUMBER SYSTEM: CSSS300400

CS = Crimp Sleeves SS = Stainless Steel SAL = Aluminum

First 3 digits = Inside Diameter of Hose Fourth digit = Inside Diameter of Sleeve in inches.

Fifth & sixth digits = Inside Diameter of Sleeve in 64ths of an inch.

#### INFINITY™ AND PALADIN® CRIMP SLEEVES

| SIZE | STAINLESS STEEL | ALUMINUM    |
|------|-----------------|-------------|
| in.  | part number     | part number |
| 2    | CSSS200300      | SAL200260   |
| 3    | CSSS300400      | SAL300360   |
| 4    | CSSS400500      | SAL400460   |

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

#### MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

APPENDIX

# PRESSURE WASHER FITTINGS



#### **Product Specifications**

**APPLICATION:** 1/4" and 3/8" bite to wire pressure washer fittings. Only for use with the following Goodyear

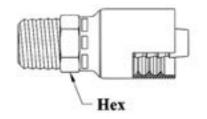
Engineered Products pressure washer hose specs: Fortress® 3000, Neptune™ 3000, Neptune™ 4001-R, Neptune™ 4500, Gauntlet® 3000, Gauntlet® 4500, Spectra® 3000, Galvanator® 3000

and Neptune $^{\text{\tiny M}}$  6000.

MATERIALS: Steel, yellow zinc diachromate finish

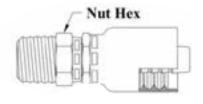
BRANDING: Non-branded

#### **NPTF MALE SOLID**



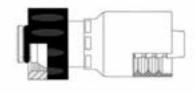
| HOSE<br>SIZE (in.) | THREAD<br>SIZE (in.) |
|--------------------|----------------------|
| 1/4                | 1/4-18               |
| 3/8                | 3/8-18F250BR         |
|                    | <b>SIZE (in.)</b>    |

#### NPTF MALE SWIVEL



| ORDER CODE        | HOSE<br>SIZE (in.) | THREAD<br>SIZE (in.) |
|-------------------|--------------------|----------------------|
| 539-173-538-23600 | 1/4                | 1/4-18               |
| 539-173-538-22900 | 3/8                | 3/8-18               |

#### 22MM POWER WASH



| ORDER CODE        | HOSE<br>SIZE (in.) | THREAD<br>SIZE (mm.) |
|-------------------|--------------------|----------------------|
| 539-173-538-23800 | 3/8                | 22 x 1.5             |



## ADDITIONAL PRODUCTS

| ADDITION   | AL NON-STOCK SPECIFIC                               | ATIONS   |
|------------|---|--|
| ORDER CODE | HOSE DESCRIPTION                                    | APPLICATION  |
|            |   | Air & Multipurpose   |
| 549-406    | Plicord Green EC Air                                | 400 psi wrapped finish Green Air hose, Class B Nitrile tube,<br>Green SBR Class C cover                                |
| 549-153    | Ortac II  | 200 psi air hose, Class A Nitrile static dissipating tube, Red Class B cover   |
| 549-007    | Plicord Air Yellow                                  | 300 psi air hose, Class C non-conductive tube, Yellow Class C cover  |
| 549-260    | Plicord Rock Drill                                  | 400-500 psi air hose, Class C tube, Blue with Yellow stripe Class C cover  |
| 563-599    | Ultrabraid Air                                      | 400 psi air hose, Class C tube, Class C  |
| 536-600    |   | non-conductive MSHA cover in Green or Yellow   |
| 539-158    | Ultrabraid Bull Hose                                | 500 psi air hose, Class C tube, Yellow Class C cover   |
| 536-589    | Ultrabraid HD Plus                                  | 400 psi air hose, Class A Nitrile tube   |
| 536-598    |   | Class A Yellow or Green MSHA cover   |
| 539-156    | Ultrabraid Supreme                                  | 1000 psi air hose, Class A Nitrile tube, Class A   |
| 539-157    | ·   | Yellow or Blue high abrasion resistant MSHA cover  |
|            |   | Chemical   |
| 549-014    | Brown Chem-Acid Discharge                           | Chemrin tube, versatile chemical discharge hose capable of handling a wid variety of industrial chemicals              |
| 546-014    | Fabchem ARC   | Pliosyn tube, Fabchem with a ARC (Abrasion-Resistant Cover) for a wide variety of industrial chemicals                 |
| 546-011    | Gray Chem-Acid Discharge                            | Weatherex tube, versatile chemical discharge hose capable of handling a wide variety of industrial chemicals           |
| 546-067    | Gray Flexwing                                       | Weatherex tube, versatile chemical transfer hose capable of handling a wid variety of industrial chemicals             |
| 546-064    | Yellow Flexwing                                     | Hysunite tube, versatile chemical transfer hose capable of handling a wide variety of industrial chemicals             |
| 546-010    | Yellow Chem-Acid Discharge                          | Hysunite tube, versatile chemical discharge hose capable of handling a wid variety of industrial chemicals             |
|            |   | Cleaning Equipment   |
| 539-132    | Neptune 2250  | Pressure washer service application  |
| 539-141    | Neptune 3600  | Pressure washer service application  |
|            | .,  | Food   |
| 549-147    | White Flextra                                       | Lightweight, flexible hose for transferring oily and non-oily edibles under pressure on tank truck or in-plant service |
| 549-150    | White Softwall                                      | Discharge transfer of dry or liquid foods having either oily or non-oily bases   |
| 539-404    | Spectra 1000  | Food washdown applications   |
| 539-413    | Spectra 3000  | Food washdown applications   |
|            |   | Marine   |
| 586-454    | Spiraflex Marine Bilge                              | PVC hose for drain, vanity, and scooper lines  |
| 586-447    | Spiraflex Marine Livewell                           | PVC hose for head intake, discharge, and pump out service  |
| 586-439    | Spiraflex Marine Sanitation FDA                     | PVC hose for potable water transfer  |
|            | •   | PVC hose for bilge pumps or holding tank pump out service  |
| 586-451    | Spiraflex Marine Vacuum Spiraflex Marine Vacuum FDA | PVC hose for potable water transfer  |
| 586-444    | Spiraties matrile vacuum FDA                        |  |
|            |   | Material Handling  |
| 549-946    | Concrete Vibrator Hose                              | Reinforced rubber sleeve for concrete vibrator   |
| 541-262    | Clam Jetting  | Softwall hose for underwater jetting and collection of clams   |

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



## APPENDIX A

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

## ADDITIONAL PRODUCTS

ADDITIONAL NON-STOCK SPECIFICATIONS

| ORDER CODE | HOSE DESCRIPTION                     | APPLICATION  |
|------------|--------------------------------------|--|
|            |                                      | Material Handling (continued)  |
| 549-859    | Blast Hole Slurry/Dewatering         | Hardwall hose for filling blast hole with explosive  |
| 541-814    | Plicord Hyrdrovator Red S&D          | Corrugated Plioflex cover and red natural rubber tube provide good flexibility, durability and outstanding abrasion and tear resistance. |
| 549-337    | Liquid Mud Hose                      | Transfer Drilling Mud  |
| 549-706    | Refractory Hose, 2 Plies             | Refractory hose with static dissipating tube   |
| 549-863    | Gunite, 4 Plies                      | Sand cement gunning application with static dissipation tube   |
| 586-479    | Mulchblower                          | PVC hose for transfer of mulch products  |
| 586-477    | Barkblower                           | PVC heavy-duty hose for transfer of wood chips   |
| Cust Serv  | Air Seeder                           | PVC hose for agricultural seeding applications   |
|            |                                      | Mining   |
| 549-229    | Plicord Cable Cover Hose             | Non-conductive hose for cooling/protection of electrical cables  |
|            |                                      | Petroleum  |
| 532-390    | LT Redwing Fuel Oil                  | Improved flexibility at lower temperatures   |
| 541-593    | Dock Hose Nitrile FDA                | Large bore hose for food products  |
| 543-485    | Floater Fuel Delivery (Marathon)     | Softwall fuel discharge for ship to shore transfer   |
| 541-606    | Smooth Bore Hot Tar & Asphalt        | Hardwall hose with a smooth reinforced line for high-temp applications   |
| 541-688    | Smooth Bore Molten Sulphur           | Hardwall hose with a smooth reinforced liner for high-temp applications  |
| 543-142    | Black Flextra II 150                 | Corrugated petroleum-based product transfer hose where aromatic content exceeds 50%  |
| 541-579    | Plicord Rough Bore Dock              | For the transfer of petroleum products between docks and ships   |
| 543-802    | Plicord LW Northern Petroleum        | Lighter weight petroleum-based product transfer hose where aromatic content does not exceed 50%  |
| 543-663    | Infinity HD LT Petroleum Transfer    | Lightweight and flexible properties with improved cold weather capabilitites to -40°F /-40°C.  |
| 543-509    | Plicord Vapor Recovery               | Recovering gasoline vapors while unloading tank trucks at service stations or loading tanks at bulk terminals                            |
| 586-425    | Spiraflex Vapor Recovery             | PVC hose for vapor recovery  |
| Cust Serv  | Oil Rig Supply Hose                  | Specialized hose lines for use on offshore drilling platforms  |
|            |                                      | Gasoline Dispensing  |
| 532-388    | Hardwall Dispensing - Europe         | Wire braid gasoline dispensing, meets European Standard EN 1360  |
| 532-387    | Textile Dispensing - Australian      | Textile braid gasoline dispensing, meets Australian Standard AS 2683   |
| 532-357    | Hardwall Dispensing - Australian     | Wire braid gasoline dispensing, meets Australian Standard AS 2683  |
| 586-425    | Spiraflex Vapor Recovery             | PVC hose for vapor recovery  |
|            |                                      | Special Application  |
| 541-219    | Fish Suction                         | Heavy-duty hardwall hose with an abrasive liner  |
| 541-320    | Furnace coolant hose                 | Large diameter hose for water cooling in blast furnaces  |
| Cust Serv  | Manure line hose                     | Delivery of manure from holding tanks to field   |
| 542-956    | Radiator Hose (Standard)             | Coolant hose, EPDM tube, EPDM cover, 2 plies   |
| 542-957    | Radiator Hose (Heavy Duty)           | Coolant hose, EPDM tube, EPDM cover, 4 plies   |
| 541-843    | Plicord Paper Machine<br>Suction Box | Flexible connection on the suction box of paper machines   |
| 541-301    | Plicord Leaf Collector               | For street cleaning equipment to remove debris   |





## APPENDIX A

## ADDITIONAL PRODUCTS

| <b>ADDITION</b> | AL NON-STOCK SPECIFICA          | ATIONS   |
|-----------------|---------------------------------|--|
| ORDER CODE      | HOSE DESCRIPTION                | APPLICATION  |
|                 |                                 | Special Application (continued)  |
| 542-683         | Plicord Roof Drain - Nitrile    | Handling rainwater drainage from floating tank roof  |
| 542-901         | Plicord Roof Drain - Viton      | Handling rainwater drainage from floating tank roof  |
| Cust Serv       | Air Seeder                      | PVC hose for agricultural seeding applications   |
| 586-402         | PVC Fish Suction                | PVC hose for transfer of fish  |
| 549-806         | Irrigation pivot joint (boot)   | Flexible joint for joining piping  |
| 586-476         | Fire Engine Suction             | PVC hose for water transfer service (clear with black helix)   |
| 536-461         | Freon Charging GY5              | Air-conditioning refrigeration hose (colors: blue/red/yellow)  |
| 536-303         | Freon Charging All Rubber       | Air-conditioning refrigeration hose (colors: blue/red/yellow)  |
| 536-486         | Divers Hose High Pressure       | High pressure diving hose application  |
| 536-451         | Divers Hose Low Pressure        | Low pressure diving hose application   |
|                 |                                 | Water  |
| 586-452         | Premier                         | Medium-duty suctionand discharge hose for use in agricultural, construction and general industrial service |
| 542-157         | Plicord Contractors S&D         | Water suction & discharge hose, SBR tube and cover   |
| 542-547         | Jetting & Utility               | High pressure water service  |
| 542-445         | Potable Water 150 psi           | Potable water, white natural FDA tube  |
| 542-162         | Plicord Water Discharge-300 psi | General purpose water discharge hose for heavier duty applications   |
| 542-322         | Plicord Water & Suction-300 psi | General purpose water S&D hose for heavier duty applications   |
| 537-512         | Spiraflex 3000 (black)          | PVC Layflat for wheel line irrigation service  |
|                 |                                 | Military   |
| 569-536         | ZZ H 500C                       | General shop service pneumatic hose  |
| 569-567         | ZZ H 601E                       | General water & potable water discharge service  |
| Cust Serv       | ZZ H 601E                       | General water & potable water discharge service  |
| 543-811         | Mil PRF 370H Type A             | Fuel transfer standard collapsible   |
| 543-760         | Mil PRF 370H Type B             | Fuel transfer standard noncollapsible  |
| 543-552         | Mil DTL-6615 Type I             | Fuel transfer hose with low-temperature capability, with electrical bond                                   |
| 543-553         | Mil DTL-6615 Type II            | Fuel transfer hose with low-temperature capability, without electrical bond                                |
| Cust Serv       | ZZ H 561K                       | Water suction & discharge hose   |
| 543-766         | Mil H 22240F Type A             | Lightweight fuel hose for alongside service  |
| 543-769         | Mil H 22240F Type C             | Lightweight fuel/water discharge hose for alongside service  |
| Cust Serv       | Mil PRF 11588G                  | Fuel discharge hose style ST only  |
| Cust Serv       | Mil H 82127 Type A              | Fuel discharge hose for aviation gasoline, diesel, and automotive fuels                                    |
| 549-749         | Mil H 24136/4                   | Sound attenuation hose   |
| 547-855         | Mil H 8788C                     | For use in hydraulic systems   |
| 536-341         | Mil H 24580SH                   | Onboard ship firefighting hose   |

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdowr

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WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

#### CHEMICAL CHARTS

#### **GOODYEAR ENGINEERED PRODUCTS CHEMICAL RESISTANCE CHARTS**

#### **RATINGS AND DEFINITIONS**

The Goodyear Engineered Products Chemical Resistance Chart is to be used as a guide only.

- A The chemical is expected to have minor or no effect on the product. Product may be used for continuous service. Changes in working conditions, such as concentration of the chemical or temperature, may affect product performance and cause degradation of the product.
- **B** The product may be used for continuous or intermittent service, however the product properties will be affected by the exposure to the chemical. Changes in working conditions, such as concentration of the chemical or temperature, may affect product performance and cause degradation of the product.
- **X** The product should not be used with this chemical.
- Insufficient or no data available for this chemical. Further testing is recommended to determine compatibility of the chemical with the product.

**Caution:** Unless otherwise specified, the ratings applied to tube stocks are based on fully concentrated or saturated solutions at 100°F under normal service conditions.

**Note:** Hose ratings are for the effect on the polymer only. The degree of resistance of a rubber compound to a specific chemical depends on many variables such as temperature, concentration, length of exposure, stability of chemical, etc. For a specific compound, many grades of polymers are available which can alter the compound's chemical resistance.

**WHEN IN DOUBT**, before using a specific product, contact your local Goodyear Engineered Products Sales Representative for assistance if unusual service conditions or high temperatures are present in the product application.

THIS CHEMICAL RESISTANCE CHART SUPERSEDES ALL PREVIOUSLY PUBLISHED INFORMATION REGARDING GOODYEAR ENGINEERED PRODUCTS CHEMICAL HOSE RESISTANCE RATINGS.



#### CHEMICAL CHARTS

| Common Name & Description                            | Veyance Technologies, Inc.<br>Trade Name | Goodyear Engineered Products<br>Examples with Polymer in the Tube |
|--|--|---|
| UHMWPE (Ultra High Molecular<br>Weight Polyethylene) | Pliosyn™                                 | Fabchem™  |
| Butyl (Isobutylene and Isoprene)                     | Weatherex®                               | Gray Flexwing®  |
| Hypalon® (Chlorosulfonated Polyethylene)             | Hysunite™                                | Yellow Flexwing®  |
| NR - Natural Rubber (Isoprene, natural)              | Pureten™                                 | Tan Flexwing®   |
| Viton®   | Flosyn®                                  | Orange Flexwing®  |
| Nitrile  |  | Flexwing® Petroleum   |
| CPE (Chlorinated Polyethylene)                       | Chemrin®                                 | Brown Flexwing®, ExtremeFlex™ Brown                               |
| EPDM (Ethylene Propylene Diene)                      | Versigard®                               | Purple Flexwing®, ExtremeFlex™ Purple                             |
| EPDM (Heat Resistant)                                | Pyrosyn®                                 | Flexsteel® 250 Steam, Whitewater®                                 |
| Cross-Link Polyethylene (XLPE)                       | Speclar®                                 | Blue Flexwing®, Green XLPE  |
| Alphasyn® (Modified Cross-Link Polyethylene)         | Alphasyn®                                | Viper™  |
| Teflon®  |  | Hi-Per®   |
| 316 Stainless Steel                                  |  | Insta-Lock™   |
| Aluminum   |  | Insta-Lock™   |
| Brass  |  | Insta-Lock™   |

Caution: This chart and the following chemical resistance charts are intended to reflect the various tube compounds as they pertain to Goodyear Engineered Products petroluem and chemical hose. Always use a Goodyear Engineered Products petroleum or chemical hose when the hose is to be used for conveyance of petroleum or chemicals. Consult the following pages for chemical compatability of the various tube stocks.

Hypalon® is a registered trademark of DuPont Dow Elastomers L.L.C.
Viton® is a registered trademark of DuPont Dow Elastomers L.L.C.
Teflon® is a registed trademark of E.I. du Pont de Nemours and Company.
Versigard® is a registed trademark of The Goodyear Tire and Rubber Company.

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS





AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

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STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

#### APPENDIX

#### CHEMICAL CHARTS

| RATING SCALE   |                    |        |          |           | GOOI          | DYEA   |          |                        | ERED F<br>L Hose |             | CTS      | ;                  |  |               | FIT        | TING           |
|--|--------------------|--------|----------|-----------|---------------|--------|----------|------------------------|------------------|-------------|----------|--------------------|--|---------------|------------|----------------|
| A = May be used for<br>Continuous Service                    |                    |        | _        | 7         | 7             | 7      | 7        |                        |                  |             | /        |                    |  | _             |            |                |
| $\mathbf{B} = May$ be used for                               |                    |        |          |           | /             |        | /        | Brown Flexwing Extreme | Purple Flexwing  | Jole /      |          | Viper 74           |  | /             |            |                |
| Intermittent Service   |                    | /      | Gray Fl. | Vellow E. | . <u>g</u> g/ | · . /  | Flexwing | tole,                  | ر<br>الم         |             | 20/      | \ <u>\internal</u> | / /  | /             | / ,        | / /            |
| I = Insufficient data, contact<br>customer services          |                    |        | [ / ;    |           | `   EXM       |        | 19. [8]  | e Perior               |                  | Tex<br>(FPE | exwi,    | <b>9</b>           | , /,   | <u>*</u>      | <b>ĕ</b> / | <u>\$</u> \\$  |
| $\mathbf{X} = \mathbf{Do} \text{ not use}$                   |                    | Fabcha |          |           | Tan Flam      |        | 3/Wii    |                        |                  | Green XLPE  | Chem o   | HI-P.F.D.          | Install                                      | $\frac{1}{2}$ | 7 / 2      | Insta-Lock     |
| GASKET   | (F)                | Fal    | le l'e   | <u> </u>  | /a/           | / 6    | / 12     | 12 B                   | E E              | 6 6         | Chem C   | /₩                 | <u>                                     </u> | Install       | Hoon -     | / <del>(</del> |
| T = Teflon® V = Viton®                                       |                    | NPE    |          | ouo       |               |        |          |                        |                  |             | *Iphasyn |                    | SS   | Aluminum      |            |                |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$ | atırı              | UHMWPE | Butyl    | Hypalon⊗  | NR            | Viton® | Nitrile  | CPE                    | EPDM             | XLPE        | Alpha    | Teflon®            | 316 SS                                       | Alum          | Brass      | Gasket         |
| <b>S</b> = Silicone  | <b>Femperature</b> |        |          |           |               |        |          |                        |                  |             |          |                    |  |               |            |                |
| A  | 層                  |        |          |           |               | HOS    | E TU     | BE POI                 | LYMER            |             |          |                    |  | IVI           | ΕΙΑ        |                |
| Acetaldehyde   | 100                | В      | В        | χ         | χ             | χ      | χ        | I                      | Α                | Α           | Α        | Α                  | Α  | В             | Χ          | TS             |
| Acetic Acid, Conc.   | 100                | Α      | Α        | χ         | В             | Х      | Х        | Α                      | Α                | Α           | Α        | Α                  | Α  | В             | Χ          | T              |
| Acetic Acid, Dilute 10                                       | 150                | В      | Α        | χ         | Α             | Χ      | χ        | A                      | A                | Α           | Α        | Α                  | Α  | ı             | Χ          | TVN            |
| Acetic Acid, Glacial   | 100                | Α      | В        | χ         | χ             | χ      | χ        | Α                      | Α                | Α           | Α        | Α                  | Α  | В             | Χ          | TS             |
| Acetic Aldehyde  | 100                | Α      | В        | Χ         | χ             | χ      | Χ        | - 1                    | A                | Α           | Α        | Α                  | Α  | В             | Х          | T              |
| Acetic Anhydride   | 100                | В      | Α        | В         | χ             | χ      | χ        | A                      | A                | Α           | Α        | Α                  | Α  | В             | Χ          | TS             |
| Acetic Ester   | 100                | В      | В        | χ         | Χ             | χ      | χ        | В                      | Α                | Α           | Α        | Α                  | Α  | Α             | Α          | TV             |
| Acetic Ether   | 100                | В      | В        | χ         | χ             | χ      | Х        | В                      | Α                | Α           | Α        | Α                  | Α  | Α             | Α          | T              |
| Acetic Oxide   | 100                | В      | Α        | В         | χ             | Х      | Χ        | A                      | Α                | Α           | Α        | Α                  | Α  | В             | Х          | T              |
| Acetone  | 100                | Α      | Α        | χ         | В             | χ      | χ        | Α                      | Α                | Α           | Α        | Α                  | Α  | Α             | ı          | T              |
| Acetone Cyanohydrin  | 100                | В      | Α        | χ         | χ             | χ      | Х        | A                      | Α                | Α           | Α        | Α                  | ı  | ı             | ı          | TS             |
| Acetyl Acetone   | 100                | В      | В        | χ         | χ             | Х      | Χ        | В                      | 1                | Α           | Α        | Α                  | ı  | В             | ı          | T              |
| Acetyl Chloride  | 100                | В      | Χ        | χ         | Χ             | В      | χ        | A                      | В                | В           | Α        | Α                  | В  | χ             | Α          | TV             |
| Acetyl Oxide   | 100                | В      | Α        | В         | Χ             | Χ      | Χ        | A                      | A                | Α           | Α        | Α                  | Α  | В             | Χ          | T              |
| Acetylene (dry)  | 100                | Α      | Α        | Α         | Α             | Α      | Α        | A                      | Α                | Α           | Х        | Α                  | Α  | ı             | - 1        | TVBNS          |
| Acetylene Dichloride   | 100                | В      | Χ        | Χ         | χ             | Α      | χ        | ı                      | - 1              | Α           | X        | Α                  | 1  | Α             | Χ          | TV             |
| Acetylene Tetrachloride                                      | 100                | В      | χ        | Χ         | χ             | Α      | Χ        | 1                      | ı                | Α           | 1        | Α                  | Α  | Χ             | Χ          | TV             |
| Acrolein   | 100                | В      | Α        | В         | В             | Α      | В        | ı                      | - 1              | Α           | Α        | Α                  | - 1  | I             | -          | TV             |
| Acrylic Acid   | 100                | В      | Χ        | Χ         | Χ             | Α      | χ        | Х                      | Χ                | Α           | Α        | Α                  | Α  | 1             | ı          | TV             |
| Acrylonitrile  | 100                | В      | Χ        | Χ         | Χ             | Χ      | Χ        | Α                      | Χ                | В           | Α        | Α                  | Α  | χ             | 1          | T              |
| Alk-Tri  | 100                | ı      | Χ        | χ         | Χ             | Α      | χ        | I                      | - 1              | Α           | I        | Α                  | Α  | Ι             | ı          | TV             |
| Allyl Alcohol  | 100                | Α      | Α        | Α         | Α             | В      | Α        | Α                      | Α                | Α           | Α        | Α                  | Α  | I             | Α          | TBN            |
| Allyl Bromide  | 100                | В      | Χ        | χ         | Χ             | В      | χ        | В                      | - 1              | В           | 1        | Α                  | 1  | ı             | ı          | T              |
| Allyl Chloride   | 100                | В      | Χ        | χ         | Χ             | В      | Χ        | В                      | χ                | В           | 1        | Α                  | Α  | χ             | Χ          | TS             |
| Alum   | 150                | Α      | Α        | Α         | Α             | Α      | Α        | Α                      | Α                | Α           | Α        | Α                  | Α  | I             | Χ          | TVBNS          |
| Aluminum Acetate   | 100                | Α      | Α        | Α         | Χ             | χ      | Χ        | Α                      | Α                | Α           | Α        | Α                  | Α  | 1             | Χ          | T              |
| Aluminum Chloride  | 150                | Α      | Α        | Α         | Α             | Α      | Α        | Α                      | Α                | Α           | Α        | Α                  | 1  | 1             | Χ          | TVB            |
| Aluminum Formate   | 100                | Α      | В        | Χ         | Χ             | χ      | Χ        | 1                      | - 1              | Α           | Α        | Α                  | _  | I             | _          | T              |
| Aluminum Hydroxide   | 150                | Α      | Α        | В         | Α             | Χ      | В        | Α                      | Α                | Α           | Α        | Α                  | Α  | I             | Χ          | TS             |
| Aluminum Sulfate   | 150                | Α      | Α        | Α         | Α             | Α      | Α        | Α                      | Α                | Α           | Α        | Α                  | Α  | Χ             | Χ          | TVBNS          |
| Aminoethanol   | 100                | Α      | А        | В         | В             | I      | В        | Α                      | I                | Α           | Α        | Α                  | Α  | В             | I          | TBN            |
| Aminoethylethanolamine                                       | 100                | Α      | Α        | В         | В             | I      | В        | Α                      | I                | Α           | Α        | Α                  | ı  | I             | I          | T              |
| Ammonia  |                    |        | NO H     | DSE R     | ECOM          | MEND   | ED FO    | OR THIS                | APPLIC <i>A</i>  | TION        |          |                    |  |               |            |                |



#### CHEMICAL CHARTS

This chemical chart is offered as a guide only. There are many variables to be considered with each application. Ratings are for tube polymer only! For explanation of ratings see the initial page of these Chemical Charts in Appendix B. Contact customer services for chemicals or polymers not listed at 800-235-4632.

|  |                    |        |       |           |               | -\/- · |          |                       |                         |            |           |           |               |           |            |            |
|--|--------------------|--------|-------|-----------|---------------|--------|----------|-----------------------|-------------------------|------------|-----------|-----------|---------------|-----------|------------|------------|
| <b>A</b> = May be used for                                   |                    |        |       |           | GUUI          | DYEA   |          |                       | ERED F<br>L Hose        |            | UIS       |           |               |           | FII        | TING       |
| Continuous Service   |                    |        |       | 7         | 7             | 7      | 7        | 7                     | /                       | ,          | /         | 7         | 7             | 7         |            |            |
| $\mathbf{B} = May$ be used for                               |                    |        |       |           | /             |        | /        |                       | <i>u</i> <sub>M</sub> / | ble.       |           | Viper"    |               | /         |            |            |
| Intermittent Service   |                    | /      | ′ /   | ( e /     | . <u>e</u> e/ | · . /  |          | tole,                 | <u>اَيْ</u> / هَا مِنْ  | الله الله  | ر مخ      | /ili/     | / /           | Ι,        | /          | / /        |
| I = Insufficient data, contact<br>customer services          |                    | / /    | • /   |           | i \ iexi      |        | [ \ E    | e Per                 | iexy lex                | PE FEE     | 'XMII     | <u></u>   | $\mathcal{L}$ | <u>*</u>  | <b>≱</b> / | <u>\$</u>  |
| $\mathbf{X} = \mathbf{Do} \text{ not use}$                   |                    | Fabcho |       |           |               |        |          |                       |                         |            |           | )   B     | $\frac{1}{2}$ |           | )<br>}     | Insta-Lock |
| GASKET   | ا ا                | Fat    | 679   | Vellow EL | Tan Flore     | 0/3    | Flexwing | Brown Flexwing Extrem | Purple Flexwing         | Green XIPE | 1/3       | HI-PED® W | Install       | m. Hoor - | Hoozer 1   |            |
| T = Teflon® V = Viton®                                       | E.                 | 핕      |       | ů         |               |        |          |                       |                         |            | Alphasyn" |           |               | E E       |            |            |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$ | Ħ.                 | UHMWPE | Butyl | Hypalon®  | NR.           | Viton® | Nitrile  | 뛿                     | EPDM                    | XLPE       | Ipha      | Teflon®   | 316 SS        | Aluminum  | Brass      | Gasket     |
| <b>S</b> = Silicone  | <b>Femperature</b> |        |       | _         |               |        |          |                       |                         |            |           |           | (-)           |           |            |            |
| А  | <u>le</u>          |        |       |           |               | HOS    | E TU     | IBE POI               | LYMER                   |            |           |           |               | M         | ETA        |            |
| Ammonia Cupric Sulfate                                       | 150                | Α      | Α     | Α         | Χ             | Α      | Α        | Α                     | Α                       | Α          | Α         | Α         | -             | 1         | 1          | TVB        |
| Ammonium Chloride  | 150                | Α      | Α     | Α         | Α             | Α      | Α        | A                     | Α                       | Α          | Α         | Α         | Α             | Х         | Х          | TVBN       |
| Ammonium Hydroxide   | 150                | Α      | Α     | В         | Α             | χ      | X        | A                     | Α                       | Α          | Α         | Α         | Α             | Х         | 1          | TNS        |
| Ammonium Nitrate (ANFO)                                      | 150                |        |       |           | SP            | ECIAL  | HOS      | E REQUI               | RED                     |            |           |           | Α             | В         | Χ          | TVBS       |
| Ammonium Phosphate   | 150                | A      | A     | A         | А             | Α      | Α        | A                     | Α                       | Α          | Α         | Α         | Α             | Х         | Х          | TVBNS      |
| Ammonium Sulfate   | 150                | Α      | Α     | Α         | Α             | Α      | Χ        | A                     | Α                       | Α          | Α         | Α         | Α             | Х         | Х          | TVNS       |
| Ammonium Sulfide   | 150                | Α      | Α     | Α         | Α             | Α      | Χ        | A                     | Α                       | Α          | Α         | Α         | Α             | Χ         | Χ          | TVN        |
| Ammonium Sulfite   | 150                | Α      | Α     | Α         | Α             | Α      | Α        | A                     | Α                       | Α          | Α         | Α         | Α             | Х         | 1          | TVBN       |
| Ammonium Thiosulfate   | 100                | Α      | Α     | Α         | Α             | Α      | Α        | A                     | Α                       | Α          | Α         | Α         | Α             | В         | Х          | TVBN       |
| Amyl Acetate   | 100                | Α      | Α     | В         | Χ             | χ      | Χ        | Х                     | В                       | Α          | Α         | Α         | Α             | Α         | ı          | T          |
| Amyl Alcohol   | 100                | Α      | Α     | Α         | Α             | В      | Α        | A                     | Α                       | Α          | Α         | Α         | Α             | 1         | Α          | TBNS       |
| Amyl Chloride  | 100                | Α      | Χ     | Х         | Χ             | Α      | Χ        | Х                     | Χ                       | Α          | В         | Α         | Α             | Х         | 1          | TV         |
| Amyl Oleate  | 100                | Α      | Χ     | Х         | Χ             | ı      | В        | I                     | ı                       | Α          | I         | Α         | ı             | ı         | ı          | T          |
| Amyl Phenol  | 100                | Α      | Х     | Х         | Х             | Α      | X        | I                     | ı                       | Α          | I         | Α         | ı             | ı         | ı          | TV         |
| Amyl Phthalate   | 100                | Α      | Α     | Х         | Χ             | Χ      | Χ        | I                     | - 1                     | Α          | 1         | Α         | ı             | ı         | 1          | T          |
| Amylamine  | 100                | A      | В     | χ         | χ             | χ      | Χ        | В                     | Х                       | Α          | ı         | Α         | ı             | ı         | ı          | T          |
| Anethole   | 100                | Х      | Х     | Х         | X             | В      | Χ        | Х                     | I                       | Х          | I         | Α         | ı             | ı         | ı          | <u> </u>   |
| Anhydrous Ammonia  |                    | NO     | HOSI  | _         | -             |        |          |                       | PLICATION               | DN         |           |           |               |           |            |            |
| Aniline  | 100                | Α      | Α     | Х         | Х             | Α      | χ        | В                     | Α                       | Α          | Α         | Α         | Α             | В         | Х          | TV         |
| Animal Grease  | 100                | Α      | Х     | Х         | Х             | Α      | Α        | В                     | Х                       | Α          | Α         | Α         | Α             | Α         | ı          | TVB        |
| Animal Oils  | 100                | Α      | В     | Х         | Х             | Α      | Α        | A                     | Х                       | Α          | В         | Α         | Α             | Α         | 1          | TVB        |
| Antimony Pentachloride                                       | 100                | Α      | Χ     | Х         | Х             | ı      | Χ        | I                     | Х                       | В          | В         | Α         | -             | ı         | ı          | T          |
| Aqua Ammonia   | 150                | Α      | Α     | В         | Α             | Α      | В        | В                     | В                       | Α          | Α         | Α         | Α             | Х         | ı          | TV         |
| Aromatic Spirits   | 100                | A      | Х     | Х         | Х             | Α      | Χ        | I                     | Х                       | Α          | ı         | Α         | Α             | 1         | - 1        | TV         |
| Aromatic Tar   | 100                | Α      | Χ     | Х         | Х             | Α      | Χ        | В                     | Х                       | Α          | ı         | Α         | -             | ı         | ı          | TV         |
| Arquads  | 100                | Α      | Α     | Α         | Α             | Α      | A        | A                     | A                       | Α          | Α         | Α         | ı             | ı         | ı          | TVB        |
| Arsenic Acid   | 100                | Α      | Α     | Α         | Α             | ı      | Χ        | A                     | A                       | A          | Α         | Α         | Α             | Х         | Х          | TVS        |
| Arsenic Chloride   | 100                | I      | Χ     | Х         | Χ             | χ      | χ        | Х                     | Х                       | Х          | Х         | Α         | ı             | I         | ı          | TN         |
| Arsenic Trichloride  | 100                | I      | X     | Х         | X             | Χ      | Χ        | Х                     | Х                       | Х          | X         | Α         | Х             | ı         | I          | TN         |
| Asphalt  | 500                |        |       |           |               | ECIAL  |          | E REQUI               |                         |            |           |           | Α             | ı         | I          | TVN        |
| ASTM #1 Oil  | 100                | Α      | Х     | В         | Χ             | Α      | Α        | A                     | Х                       | Α          | Α         | Α         | Α             | Α         | I          | TVBNS      |
| ASTM #2 Oil  | 100                | A      | Х     | Х         | Х             | Α      | Α        | A                     | Х                       | A          | Α         | Α         | Α             | Α         | Α          | TVB        |
| ASTM #3 Oil  | 100                | A      | X     | Х         | Χ             | A      | A        | A                     | Х                       | Α          | A         | Α         | А             | Α         | Α          | TVB        |

AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

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**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

#### CHEMICAL CHARTS

|   |                  |                |       |           |           | ->/-   |          |                            |                 |            |           |             |               |          |          |                |
|---|------------------|----------------|-------|-----------|-----------|--------|----------|----------------------------|-----------------|------------|-----------|-------------|---------------|----------|----------|----------------|
| RATING SCALE  |                  |                |       |           | GUU       | UYEA   |          | NGINEI<br>Emicai           |                 |            | UIS       | i           |               |          | FIT      | TING           |
| <b>A</b> = May be used for Continuous Service               |                  |                | _     | 7         | 7         | 7      | 7        |                            |                 |            | /         | 7           |               | _        |          |                |
| $\mathbf{B} = \text{May be used for}$                       |                  |                |       |           | /         |        | /        | Brown Flexwing<br>Extremes | Purple Flexwing | jg/        |           | Viper 74    | . /           | /        |          |                |
| Intermittent Service  | . 1              | /              | ' /   | Vellow E. | !!!!      | '. /   | Flexwing | trole,<br>iii              |                 | Green XIPE | 20/       | \ <u>il</u> | / /           | /        | / ,      | / /            |
| I = Insufficient data, conta customer services              | ct               | Fabchan        | [ / . |           | W. J.     |        |          | iexw                       |                 | Fex 1      | SYWII.    | <u>.</u>    | Install       | <u>*</u> | Insta ,  | Insta-Lock     |
| $\mathbf{X} = \mathbf{Do} \text{ not use}$                  |                  |                |       |           |           |        | XWii     |                            |                 |            |           | P. C.       | $\frac{1}{2}$ | 7 / t    | 7        | 7-67           |
| GASKET  |                  | Į <sub>a</sub> | 6ra   | /%        | Tan Flore | 0/3    | 13/4     | Ext.                       | 10 P            | 15 18      | Chem C    | HI-Pro      | 1118          | Insta.   | 1/18     | / <del> </del> |
| T = Teflon® V = Viton®                                      | (F)              | VPE            |       | ů         |           |        |          |                            |                 |            | Alphasyn" |             | ير            | Aluminum |          | 늄              |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neopren}$ | e<br>Temperature | UHMWPE         | Butyl | Hypalon®  | 뚲         | Viton® | Nitrile  | CPE                        | EPDM            | XLPE       | Alpha     | Teflon∘     | 316 SS        | Alum     | Brass    | Gasket         |
| <b>S</b> = Silicone   | nber             |                |       |           |           |        |          |                            |                 |            |           | -           |               |          |          |                |
| В   | 直                |                |       |           |           | HOS    | E TU     | IBE POL                    | YMER            |            |           |             |               | M        | ETAI     |                |
| Barium Carbonate  | 150              | Α              | Α     | Α         | Α         | Α      | Α        | А                          | Α               | А          | Α         | Α           | Α             | χ        | -1       | TVBN           |
| Barium Chloride   | 150              | Α              | Α     | Α         | Α         | Α      | Α        | Α                          | Α               | Α          | Α         | Α           | Α             | χ        | 1        | TVBN           |
| Barium Hydroxide  | 150              | Α              | Α     | Α         | Α         | В      | Α        | Α                          | Α               | Α          | Α         | Α           | Α             | Χ        | Χ        | TBNS           |
| Barium Sulfate  | 150              | Α              | Α     | Α         | Α         | Α      | Α        | Α                          | Α               | Α          | Α         | Α           | В             | Α        | Χ        | TVBS           |
| Barium Sulfide  | 150              | Α              | Α     | Α         | Α         | Α      | А        | Α                          | Α               | Α          | Α         | Α           | Α             | Χ        | Χ        | TVBS           |
| Benzal Chloride   | 100              | Α              | В     | ı         | ı         | -      | X        | Х                          | - 1             | Α          | -1        | Α           | В             | Χ        | -1       | T              |
| Benzaldehyde  | 100              | Α              | В     | Х         | Χ         | χ      | X        | Х                          | В               | Α          | В         | Α           | Α             | В        | -1       | T              |
| Benzene (Benzol)  | 100              | Α              | χ     | Х         | Х         | Α      | X        | Х                          | Х               | В          | В         | Α           | Α             | Α        | Α        | TV             |
| Benzine (Ligroin)   | 100              | Α              | χ     | Х         | Х         | Α      | A        | I                          | Х               | Α          | В         | Α           | Α             | Α        | 1        | TVB            |
| Benzine Solvent (Ligroin)                                   | 100              | Α              | χ     | Х         | Х         | Α      | Α        | I                          | Х               | Α          | 1         | Α           | Α             | Α        | 1        | TVBS           |
| Benzoic Acid  | 100              | Α              | В     | В         | Х         | ı      | 1        | Α                          | В               | Α          | Α         | Α           | В             | В        | Х        | TVN            |
| Benzoic Aldehyde  | 100              | Α              | В     | Х         | Х         | Χ      | Х        | Х                          | В               | Α          | 1         | Α           | Α             | ı        | В        | T              |
| Benzotrichloride  | 100              | χ              | -     | 1         | 1         | -      | Х        | Х                          | Х               | X          | X         | Α           |               | I        | -        | T              |
| Benzoyl Chloride  | 100              | Χ              | -     | -         | 1         | -      | Х        | Х                          | Х               | В          | X         | Α           | В             | I        | -        | T              |
| Benzyl Acetate  | 100              | Α              | A     | В         | X         | Χ      | X        | В                          | 1               | A          | В         | Α           | В             | -        | 1        | T              |
| Benzyl Alcohol  | 100              | Α              | Α     | Х         | Х         | Α      | Х        | Α                          | Х               | Α          | Α         | Α           | Α             | В        | 1        | TVS            |
| Benzyl Chloride   | 100              | Α              | Х     | Х         | Х         | Α      | X        | Х                          | Х               | Α          | I         | Α           | A             | Х        | Х        | TV             |
| Bichromate of Soda  | 150              | Α              | A     | X         | <u> </u>  | -      | <u> </u> | I                          | 1               | A          | Α         | Α           |               | I        |          | T              |
| Black Sulfate Liquor  | 150              | A              | X     | В         | В         | В      | В        | A                          | В               | A          | Α         | Α           | A             | X        | Х        | TVBN           |
| Black Sulfate Liquor  | 275              | X              | X     | Х         | Х         | X      | X        | A                          | Х               | X          | X         | Α           | A             | X        | X        | T              |
| Bleach  | 100              | Χ              | В     | X         | Х         | В      | X        | I                          | A               | Х          | В         | Α           | Х             | X        | X        | TV             |
| Brine   | 150              | A              | A     | A         | A         | A      | A        | A                          | A               | A          | A         | Α           | A             | X        | l<br>V   | TVBNS          |
| Bromine   | 100              | Х              | X     | X         | X         | В      | X        | l                          | Х               | X          | X         | Α           | X             | X        | X        | TV             |
| Bromo Benzene   | 100              | В              | X     | X         | X         | В      | X        | X                          | X               | X          | X         | Α           |               |          | <u> </u> | TV             |
| Bromo Toluene   | 100              | X              | Х     | X         | X         | В      | X        | X                          | Х               | X          | X         | Α           |               | l        | l<br>v   | T              |
| Bromochloromethane  | 100              | Х              | В     | X         | X         | В      | X        | X                          | l               | Х          | A         | Α           | A             | X        | X        | T              |
| Bunker C.   | 100              | В              | X     | X         | X         | A      | Α        | I                          | X               | A          | В         | A           | A             |          |          | TVB            |
| Bunker Oil  | 100              | В              | X     | X         | X         | A      | Α        | 1                          | Χ               | X          | В         | A           | A             |          |          | TVB            |
| Butanol  Rutul (Normal) Alashal                             | 100              | A              | Α     | A         | Α         | В      | Α        | A                          | A               | A          | Α         | A           | A             | 1        | 1        | TBN            |
| Butyl (Normal) Alcohol                                      | 100              | A              | Α     | A         | A         | В      | Α        | A                          | A               | A          | A         | A           | A             |          | I        | TBN            |
| Butyl (Secondary) Alcohol                                   | 100              | Α              | A     | A         | A         | В      | A        | A                          | A               | Α          | A         | A           | A             | l<br>D   | I        | TBN            |
| Butyl Acetate   | 100              | A              | A     | В         | X         | X      | X        | В                          | В               | A          | В         | Α           | A             | В        | I        | T              |
| Butyl Acetoacetate  | 100              | Α              | Χ     | Х         | X         | Χ      | Х        | Х                          |                 | А          | В         | Α           | I             | ı        |          | <u> </u>       |



#### CHEMICAL CHARTS

This chemical chart is offered as a guide only. There are many variables to be considered with each application. Ratings are for tube polymer only! For explanation of ratings see the initial page of these Chemical Charts in Appendix B. Contact customer services for chemicals or polymers not listed at 800-235-4632.

| of ratings see the initial page of these Chemical                                | Charts      | in Appe | ndix B. ( | Contact   | custom     | er servi     | ces for o      | chemicals o                | or polymers                           | not listed                            | at 800-    | -235-4    | 632.          |               | •           | \          |
|--|-------------|---------|-----------|-----------|------------|--------------|----------------|----------------------------|---------------------------------------|---------------------------------------|------------|-----------|---------------|---------------|-------------|------------|
| RATING SCALE  A = May be used for  |             |         |           |           | GOOI       | DYE#         |                | NGINEI<br>EMICAI           |                                       |                                       | CTS        | ;         |               |               | FIT         | TING       |
| Continuous Service   |             |         |           | 7         | 7          | 7            | 7              |                            |                                       |                                       | /          | 7         | 7             | _             |             |            |
| <b>B</b> = May be used for   |             |         | /         |           | /          |              | /              | Brown Flexwing<br>Extremes | u <sub>Mo</sub>                       | , ple                                 |            | Viper"    | . /           | /             |             |            |
| Intermittent Service  I = Insufficient data, contact                             |             | /       | Gray Fig. | Vellow E. | [ <u>8</u> | ` <b>~</b> / | Flexwing       | ing strole                 |                                       |                                       | 20/        | 8 /M      | / /           | <b>/</b>      | / /         | / /        |
| customer services  |             | Fabchan | [ / j     |           | Tan Flace  |              | , ex           | 8 / 18 P                   | Fex.                                  | #   #   #   #   #   #   #   #   #   # | exwi       | HI-PED® W | Install       | Insta. L      | Non-c       | Insta-Lock |
| $\mathbf{X} = Do not use$  |             | pcho    | a/F       |           | 1/1/1      | allo         |                |                            | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                                       |            | HI-PED    | $\frac{1}{2}$ | $\frac{1}{2}$ | 7/2         | ] es       |
| GASKET   | (F)         |         | 9         |           | /a/        | / &          | / <del>*</del> | Brown Flexwing Extremes    | Purple Flexwing  Extrem.              | Green XI.PE                           | / <b>5</b> | / 💐       | / <u>«</u>    | / <u>()</u>   | / <u>  </u> |            |
| $\mathbf{T} = Teflon^{\texttt{@}} \qquad \qquad \mathbf{V} = Viton^{\texttt{@}}$ |             | UHMWPE  | -K        | Hypalon®  |            | ů.           | Nitrile        |                            |                                       |                                       | Alphasyn™  | Teflon∘   | 316 SS        | Aluminum      | SS          | Gasket     |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$                     | ratı        | _ ₹     | Butyl     | 풒         | N.         | Viton®       | Ę              | CPE                        | EPDM                                  | XLPE                                  | ₽          | Te.       | 316           | ₩.            | Brass       | Gas        |
| <b>S</b> = Silicone  | Temperature |         |           |           |            | HUZ          | F TII          | IBE POL                    | VMFR                                  |                                       |            |           |               | М             | ETAI        |            |
| В  | <u> </u>    |         |           |           |            | 1100         |                | DE 1 OL                    | - I IVILIX                            |                                       |            |           |               | · · ·         |             |            |
| Butyl Acrylate   | 100         | В       | χ         | χ         | χ          | χ            | Χ              | В                          | Х                                     | В                                     | В          | Α         | ı             | ı             | I           | T          |
| Butyl Alcohol  | 100         | A       | Α         | Α         | Α          | В            | Α              | A                          | Α                                     | Α                                     | Α          | Α         | Α             | ı             | ı           | TBN        |
| Butyl Aldehyde   | 100         | A       | В         | χ         | χ          | χ            | Χ              | В                          | Х                                     | Α                                     | В          | Α         | Х             | Α             | Х           | T          |
| Butyl Amine  | 100         | Α       | В         | χ         | χ          | χ            | Χ              | В                          | Х                                     | Α                                     | В          | Α         | Α             | Α             | ı           | T          |
| Butyl Benzene  | 100         | A       | Χ         | χ         | χ          | Α            | Х              | Х                          | Х                                     | Α                                     | В          | Α         | -             | ı             | ı           | TV         |
| Butyl Benzl Phthalate  | 100         | A       | Α         | Χ         | χ          | Х            | X              | 1                          | 1                                     | Α                                     | 1          | Α         | 1             | 1             | 1           | T          |
| Butyl Bromide  | 100         | В       | Χ         | χ         | χ          | В            | Χ              | Х                          | X                                     | В                                     | В          | Α         | 1             | 1             | 1           | T          |
| Butyl Butyrate   | 100         | В       | Χ         | Χ         | χ          | Χ            | Х              | Х                          | ı                                     | В                                     | ı          | Α         | -             | ı             | ı           | TV         |
| Butyl Carbitol   | 100         | A       | Α         | Α         | χ          | 1            | X              | Α                          | В                                     | Α                                     | Α          | Α         | 1             | I             | 1           | T          |
| Butyl Cellosolve   | 100         | A       | Α         | Α         | χ          | Χ            | Χ              | A                          | A                                     | X                                     | Α          | Α         | Α             | Α             | Χ           | T          |
| Butyl Chloride   | 100         | В       | Х         | Х         | X          | A            | X              | Х                          | - 1                                   | В                                     | I          | Α         | В             | I             | 1           | TV         |
| Butyl Ether  | 100         | A       | Χ         | В         | Χ          | X            | В              | A                          | Χ                                     | A                                     | A          | Α         | A             | <u>   </u>    | 1           | I          |
| Butyl Ethyl Acetaldehyde   | 100         | A       | В         | X         | χ          | X            | X              | I                          | - 1                                   | A                                     | В          | Α         | <u> </u>      | <br>          | 1           | T          |
| Butyl Ethyl Ether  | 100         | A       | Х         | В         | X          |              | В              | <u> </u>                   | Χ                                     | A                                     | A          | Α         | 1             | I             | I           | T          |
| Butyl Phthalate  | 100         | A       | A         | X         | Х          | X            | X              |                            | l                                     | A                                     | A          | A         | A             | A             | ı           | T          |
| Butyl Stearate   | 100         | A       | Χ         | X         | Χ          | <u> </u>     | A              | В                          | Χ                                     | A                                     | В          | A         | A             | A             | Α           | TBS        |
| Butylate   | 100         | A       | <u> </u>  |           |            |              |                |                            | A                                     | ı                                     |            |           |               |               | 1           | <u> </u>   |
| Butyraldehyde  | 100         | A       | В         | Х         | Х          | X            | X              | В                          | Χ                                     | A                                     | В          | A         | Х             | A             | X           | T          |
| Butyric Acid   | 100         | A       | χ         | В         | Χ          | <u> </u>     | X              | A                          | В                                     | A                                     | A          | Α         | A             | В             | ı           | T          |
| Butyric Anhydride  | 100         | A       | χ         | В         | Χ          | I            | X              | ļ                          |                                       | А                                     | ı          | Α         |               |               | I           | T          |
| С  |             |         |           |           |            |              |                |                            |                                       |                                       |            |           |               |               |             |            |
| Cadmium Acetate  | 100         | Α       | Α         | Α         | Χ          | Χ            | Χ              | A                          | ı                                     | Α                                     | Α          | Α         | -             | 1             | 1           | T          |
| Calcium Acetate  | 100         | Α       | Α         | Α         | χ          | Χ            | Χ              | A                          | Α                                     | Α                                     | Α          | Α         | Α             | I             | ı           | ТВ         |
| Calcium Aluminate  | 100         | Α       | Α         | Α         | Α          | Α            | Α              | A                          | А                                     | Α                                     | Α          | Α         | ı             | ı             | ı           | TVB        |
| Calcium Bichromate   | 150         | Х       | Α         | Х         | - 1        | I            | -              | I                          | -                                     | Х                                     | ı          | Α         | ı             | ı             | ı           | T          |
| Calcium Bisulfate  | 150         | Α       | Α         | Α         | Α          | A            | Α              | A                          | Α                                     | Α                                     | Α          | Α         | Α             | Х             | Χ           | TVBN       |
| Calcium Bisulfite  | 150         | Α       | Α         | Α         | Α          | Α            | Α              | A                          | Α                                     | ı                                     | Α          | Α         | Α             | Х             | Х           | TVBNS      |
| Calcium Carbonate  | 150         | Α       | Α         | Α         | Α          | Α            | Α              | Α                          | Α                                     | Α                                     | Α          | Α         | A             | 1             | Х           | TVBNS      |
| Calcium Chloride   | 150         | Α       | Α         | Α         | Α          | Α            | Α              | A                          | Α                                     | Α                                     | Α          | Α         | В             | Х             | Х           | TVBNS      |
| Calcium Hydroxide (Caustic Lime)   | 100         | A       | Α         | В         | Α          | X            | В              | Α                          | A                                     | Α                                     | Α          | Α         | Α             | Х             | Х           | TNS        |
| Calcium Hypochlorite   | 100         | В       | В         | Χ         | Х          | В            | Χ              | A                          | В                                     | Х                                     | Α          | Α         | Α             | Х             | Х           | TV         |
| Calcium Nitrate  | 150         | Α       | Α         | Α         | Α          | Α            | Α              | A                          | Α                                     | Α                                     | Α          | Α         | В             | Х             | Х           | TVBN       |
| Calcium Silicate   | 150         | Α       | Α         | Α         | Α          | Α            | Α              | A                          | Α                                     | Α                                     | Α          | Α         |               | A             | -           | TVBN       |

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APPENDIX

#### CHEMICAL CHARTS

| RATING SCALE   |             |         |          |           | G00      | DYE/   |          |                        | ERED F                  |              | CTS      | ;                                      |         |          | FIT     | TING           |
|--|-------------|---------|----------|-----------|----------|--------|----------|------------------------|-------------------------|--------------|----------|--|---------|----------|---------|----------------|
| A = May be used for<br>Continuous Service            |             |         |          | 7         |          |        | 7        |                        | L HOSE                  |              | /        |  | 7       | _        |         |                |
| <b>B</b> = May be used for                           |             |         |          |           |          |        | /        | Brown Flexwing Extreme | Purple Flexing  Extrem. | III          |          | HI-PFD® Viper                          | ./      | /        |         |                |
| Intermittent Service  I = Insufficient data, contact |             |         | Gray FL. | Yellow E. | (Wing    | . go / | Flexwing | etrol<br>Wijig         |                         | Green XIPE   | .jg/     | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | /       | /<br># / | /. /    | /              |
| customer services                                    |             | Fabchan |          |           | Tan Flor |        | Win.     |                        | e Fle                   |              |          | HI-PFP                                 | Install | W Yoon   | Insta ( | Insta-Lock     |
| X = Do not use                                       | l           | Fabc    | Gray     | /ello     | Tan F    | Orani  | Flex     | Brow                   | Extra                   | Gree<br>Blis |          | <br>  -<br> -                          | tsul    | :/st     | 11843   | lista<br>Insta |
| GASKET   | (F)         |         | /        |           |          |        |          |                        |                         |              | T.       |  |         | <b>E</b> |         |                |
| T = Teflon® V = Viton®<br>B = Nitrile N = Neoprene   | Temperature | UHMWPE  | Butyl    | Hypalon⊚  | ¥        | Viton® | Nitrile  | SE.                    | EPDM                    | XLPE         | *Iphasyn | Teflon®                                | 316 SS  | Aluminum | Brass   | Gasket         |
| <b>S</b> = Silicone                                  | pera        | _       | 8        | =         | Z        | >      | Z        | ٥                      | ш                       | <u>×</u>     | ⋖        | <u> </u>                               | 3       | ⋖        | 8       | 5              |
| С  | Tem         |         |          |           |          | HOS    | SE TU    | BE POL                 | LYMER                   |              |          |  |         | M        | ETA     |                |
| Calcium Sulfate                                      | 150         | Α       | Α        | Α         | Α        | Α      | Α        | A                      | A                       | A            | Α        | Α                                      | Α       | ı        | 1       | TVBS           |
| Calcium Sulfhydrate                                  | 100         | A       | A        | A         | A        | A      | A        | A                      | A                       | A            | A        | A                                      | 1       | i        | i       | TVB            |
| Calcium Sulfide                                      | 150         | A       | A        | A         | A        | A      | A        | A                      | A                       | A            | A        | A                                      | A       | Х        | Х       | TVBN           |
| Calcium Sulfite                                      | 150         | A       | A        | A         | Х        | Α      | A        | A                      | A                       | Α            | Α        | A                                      | В       | В        | Х       | TVBNS          |
| Caprylic Acid  | 100         | Α       | χ        | В         | Χ        | I      | Χ        | Α                      | ı                       | Α            | Α        | Α                                      | В       | ı        | Χ       | Т              |
| Carbitol   | 100         | Α       | Α        | Α         | Χ        | I      | Χ        | Α                      | Α                       | Α            | Α        | Α                                      | В       | Α        | Χ       | Т              |
| Carbitol Acetate                                     | 100         | Α       | В        | В         | Χ        | ı      | Χ        | ı                      | ı                       | Α            | Α        | Α                                      | 1       | ı        | I       | T              |
| Carbolic Acid, Phenol                                | 100         | Α       | Α        | Χ         | Χ        | Α      | χ        | Α                      | χ                       | Α            | В        | Α                                      | Α       | В        | Α       | ΤV             |
| Carbon Dioxide                                       | 100         | Α       | Α        | Α         | Α        | Α      | Α        | Α                      | Α                       | Α            | Α        | Α                                      | Α       | В        | ı       | TVBNS          |
| Carbon Disulfide                                     |             |         | NO       | HOSI      | E REC    | OMME   | NDED     | FOR TH                 | IS APPL                 | ICATION      |          |  |         |          |         |                |
| Carbon Tetrachloride                                 | 100         | В       | χ        | Χ         | Χ        | Α      | χ        | Х                      | χ                       | Α            | В        | Α                                      | Α       | I        | ı       | ΤV             |
| Carbonic Acid  | 100         | Α       | Α        | Α         | Α        | Α      | Α        | Α                      | Α                       | Α            | Α        | Α                                      | Α       | В        | В       | TVBS           |
| Casinghead Gasoline                                  | 100         | В       | χ        | χ         | Χ        | Α      | Α        | В                      | Χ                       | В            | В        | Α                                      | -       | ı        | ı       | TVB            |
| Caster Oil (Castor Oil)                              | 100         | Α       | Α        | Α         | Χ        | Α      | Α        | Α                      | Α                       | Α            | Α        | Α                                      | Α       | Α        | -1      | TVBS           |
| Caustic Potash                                       | 150         | Α       | Α        | В         | Α        | Χ      | В        | Α                      | В                       | Α            | Α        | A                                      | Α       | Х        | Χ       | T              |
| Caustic Soda   | 150         | Α       | Α        | В         | Α        | Χ      | В        | Α                      | Α                       | Α            | Α        | Α                                      | Α       | Х        | Χ       | TNS            |
| Cellosize  | 100         | Α       | Α        | Х         | Х        | ı      | χ        | - 1                    | - 1                     | Α            | Α        | Α                                      | 1       | 1        | -1      | T              |
| Cellosolve   | 100         | Α       | Α        | A         | Х        | Χ      | Χ        | 1                      | Α                       | Α            | Α        | A                                      | Α       | Α        | Χ       | T              |
| Cellosolve Acetate                                   | 100         | Α       | В        | В         | Χ        | χ      | Χ        | Х                      | В                       | Α            | Α        | Α                                      | Α       | ı        | Χ       | T              |
| Chloracetic Acid                                     | 100         | Α       | Χ        | Х         | В        | Χ      | Χ        | Α                      | Χ                       | Α            | Α        | A                                      | Α       | Х        | Χ       | T              |
| Chlorinated Solvents                                 | 100         | В       | χ        | Х         | Χ        | Α      | Χ        | В                      | Χ                       | Α            | 1        | Α                                      | В       | Х        | Α       | TV             |
| Chlorine (Dry) (Gas)                                 |             |         | NO       | HOS       | E REC    | OMME   | NDED     | FOR TH                 | IS APPL                 | ICATION      |          |  |         |          |         |                |
| Chlorine (Wet)                                       | 100         | Х       | Χ        | Х         | Χ        | В      | Х        | Х                      | χ                       | χ            | X        | A                                      | Х       | Х        | Χ       | TV             |
| Chloroacetone  | 100         | Α       | - 1      | Х         | Χ        | χ      | Χ        | Х                      | Х                       | Α            | ı        | A                                      | Α       | Х        | Χ       | T              |
| Chlorobenzene  | 100         | В       | Χ        | Х         | Χ        | Α      | χ        | Х                      | Χ                       | Α            | В        | Α                                      | Α       | В        | 1       | TV             |
| Chlorobenzol   | 100         | Α       | Χ        | Х         | Χ        | Α      | χ        | ı                      | Χ                       | Α            | В        | A                                      | Α       | В        | -1      | TV             |
| Chlorobutane   | 100         | Х       | Х        | Х         | Χ        | Α      | χ        | Х                      | - 1                     | Х            | 1        | A                                      | 1       | 1        | - 1     | TV             |
| Chloroethylbenzene                                   | 100         | Α       | Χ        | Х         | Χ        | Α      | Χ        | ı                      | Χ                       | Α            | 1        | Α                                      | 1       | 1        | 1       | TV             |
| Chloroform   | 100         | В       | Χ        | Х         | Χ        | В      | χ        | Х                      | Χ                       | Χ            | В        | Α                                      | Α       | В        | -1      | TV             |
| Chloropentane  | 100         | Α       | Х        | Х         | Χ        | Α      | Χ        | Х                      | Х                       | A            | 1        | Α                                      | Α       | Х        | 1       | TV             |
| Chlorophenol   | 100         | Α       | Χ        | Х         | Χ        | В      | χ        | Х                      | Χ                       | χ            | В        | Α                                      | -1      | 1        | I       | TV             |
| Chloropropanone                                      | 100         | A       | I        | Х         | Χ        | χ      | Χ        | Х                      | Х                       | A            | I        | A                                      | ı       | 1        | I       | T              |
| Chlorosulfonic Acid                                  | 100         | Х       | Χ        | Х         | Χ        | χ      | χ        | I                      | Х                       | Χ            | Х        | A                                      | В       | χ        | Х       | T              |



#### CHEMICAL CHARTS

This chemical chart is offered as a guide only. There are many variables to be considered with each application. Ratings are for tube polymer only! For explanation of ratings see the initial page of these Chemical Charts in Appendix B. Contact customer services for chemicals or polymers not listed at 800-235-4632.

| RATING SCALE   |             |         |       |           | G00       | DYE/    |         | NGINE           |       |      | CTS       | ;             |                           |          | FIT     | TING       |
|--|-------------|---------|-------|-----------|-----------|---------|---------|-----------------|-------|------|-----------|---------------|---------------------------|----------|---------|------------|
| <ul> <li>A = May be used for<br/>Continuous Service</li> <li>B = May be used for<br/>Intermittent Service</li> <li>I = Insufficient data, contact</li> </ul> |             | Á       |       | Vellow EL | Tan Flam  | 8/11/18 |         | Brown Flexwing. |       |      | Chem.     | e " & Viper " | /                         | ***      |         |            |
| customer services <b>X</b> = Do not use  |             |         |       |           |           |         |         |                 | le FI |      | <u></u>   |               | $\frac{2}{5}/\frac{1}{5}$ |          |         | 3/20/2     |
|  | _           | Fabchan | Gray  | /e//      | <br> Tall | 0,41    | Flex    | Extre           | Extra |      | Cle /     | HI-PED®       | /tsu                      | Insta ,  | Insta , | Insta-Lock |
| GASKET  T = Teflon® V = Viton®   | Æ           |         |       |           |           |         |         |                 |       |      | yn.       | l .           |                           |          |         |            |
| T = Teflon® V = Viton®<br>B = Nitrile N = Neoprene   | Temperature | UHMWPE  | Butyl | Hypalon⊗  | N.        | Viton®  | Nitrile | 냸               | EPDM  | XLPE | Alphasyn" | Teflon∘       | 316 SS                    | Aluminum | Brass   | Gasket     |
| <b>S</b> = Silicone  | pera        |         | ш_    |           |           |         |         |                 |       |      | •         | _             | ന                         |          |         |            |
| С  | Tem         |         |       |           |           | HOS     | E TU    | BE POL          | YMER  |      |           |               |                           | V        | ETA     |            |
| Chlorothene  | 100         | Х       | Χ     | χ         | χ         | Α       | χ       | 1               | Х     | A    | П         | Α             | Α                         | Т        | 1       | ΤV         |
| Chlorotoluene  | 100         | χ       | Χ     | χ         | χ         | Α       | χ       | χ               | Χ     | Χ    | ı         | Α             | Α                         | ı        | ı       | TV         |
| Chlorpyrifos   | 100         | ı       | ı     | ı         | 1         | I       | 1       | I               | Χ     | I    | 1         | ı             | 1                         | ı        | ı       | ı          |
| Chromic Acid 25%   | 100         | В       | χ     | В         | χ         | ı       | Χ       | Α               | Х     | Х    | В         | Α             | В                         | Χ        | Χ       | ΤV         |
| Coal Oil   | 100         | Α       | χ     | χ         | χ         | Α       | Α       | Α               | Χ     | Α    | Α         | Α             | Α                         | Χ        | Α       | TVB        |
| Coal Tar   | 100         | Α       | Χ     | χ         | χ         | Α       | χ       | В               | Χ     | Α    | Α         | Α             | Α                         | ı        | ı       | TVS        |
| Coal Tar Naptha  | 100         | Α       | Χ     | χ         | χ         | Α       | χ       | В               | Х     | Α    | Α         | Α             | Α                         | Α        | I       | ΤV         |
| Copper Chloride  | 100         | Α       | Α     | А         | χ         | Α       | Α       | Α               | Α     | Α    | Α         | Α             | Χ                         | Χ        | Χ       | TVBNS      |
| Copper Hydrate   | 100         | Α       | Α     | В         | χ         | χ       | В       | I               | - 1   | Α    | Α         | Α             | -1                        | ı        | 1       | ТВ         |
| Copper Hydroxide   | 100         | Α       | Α     | В         | χ         | χ       | В       | I               | - 1   | Α    | Α         | Α             | -                         | ı        | ı       | ТВ         |
| Copper Nitrate   | 100         | A       | Α     | Α         | χ         | Α       | Α       | Α               | Α     | Α    | Α         | Α             | Α                         | Χ        | Χ       | TVBNS      |
| Copper Nitrite   | 100         | Α       | Α     | Α         | χ         | Α       | Α       | Α               | Α     | Α    | Α         | Α             | - 1                       | ı        | 1       | TVB        |
| Copper Sulfate   | 100         | Α       | Α     | A         | Χ         | Α       | Α       | Α               | Α     | Α    | Α         | Α             | Α                         | Χ        | Χ       | TVBNS      |
| Copper Sulfide   | 100         | A       | Α     | Α         | Χ         | Α       | Α       | Α               | Α     | Α    | Α         | Α             | - 1                       | ı        | ı       | TVB        |
| Creosols   | 100         | A       | Α     | Χ         | Χ         | Α       | Χ       | Α               | Х     | Α    | В         | Α             | Α                         | ı        | Х       | TV         |
| Creosote   | 100         | Α       | Χ     | χ         | Χ         | Α       | В       | ļ               | Х     | Α    | В         | Α             | Α                         | ı        | ı       | TV         |
| Cresylic Acid  | 100         | Α       | Α     | χ         | Χ         | ı       | Х       | Χ               | Х     | Α    | ı         | Α             | Α                         | В        | Х       | TV         |
| Crotonaldehyde   | 100         | Α       | Α     | χ         | Х         | Х       | Х       | Α               | - 1   | A    | Α         | Α             | -                         | -        | ı       | T          |
| Crude Oil  | 100         | Α       | χ     | χ         | Χ         | A       | Α       | В               | Х     | Α    | В         | Α             | Α                         | Α        | ı       | TVB        |
| Cumene   | 100         | A       | Х     | Х         | Х         | A       | X       | Χ               | Х     | A    | В         | Α             | -                         | 1        | 1       | TV         |
| Cupric Carbonate   | 100         | A       | A     | Α         | Х         | Α       | A       | Α               | A     | A    | Α         | Α             | -                         | 1        | 1       | TVBN       |
| Cupric Chloride  | 100         | A       | Α     | A         | Х         | Α       | A       | Α               | A     | A    | Α         | Α             | В                         | Х        | 1       | TVBNS      |
| Cupric Nitrate   | 100         | A       | Α     | A         | X         | Α       | Α       | A               | A     | A    | A         | A             | В                         | 1        | I       | TVBN       |
| Cupric Nitrite   | 100         | A       | A     | A         | X         | Α       | A       | A               | A     | A    | A         | Α             | -                         |          | 1       | TVBNO      |
| Cupric Sulfate   | 100         | A       | A     | A         | Х         | A       | A       | A               | A     | A    | A         | Α             | 1                         | -        | I       | TVBNS      |
| Cyclohexane  | 100         | A       | Х     | X         | Х         | A       | В       | A               | Х     | A    | В         | Α             | A                         | В        | X       | TV         |
| Cyclohexanol   | 100         | A       | X     | X         | X         | В       | В       | A               | X     | Α    | В         | Α             | A                         | X        | X       | TVB        |
| Cyclohexanone  | 100         | A       | χ     | χ         | X         | X       | χ       | χ               | X     | A    | В         | Α             | A                         |          | 1       | TVAL       |
| Cyclopentane methyl  | 100         | Α       | X     | X         | X         | A       | В       | В               | X     | Α    | В         | Α             | I                         | <u> </u> | 1       | TVN        |
| Cyclopentane, methyl   | 100         | Α       |       |           | X         | A       | В       | Ι<br>Λ          | X     | Α    | В         | Α             | I                         |          | 1       | TVP        |
| Cyclopentanol  | 100         | Α       | χ     | χ         | Χ         | В       | В       | Α               | Х     | Α    | Α         | Α             | 1                         | ı        | ı       | TVB        |

AIR &
MULTIPURPOSE
General Purpose
Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS



100

Cyclopentanone

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

APPENDIX

#### CHEMICAL CHARTS

| DATING COALE   |             |        |       |           | 000      | DVE (     |          | NOINE          |                  |  |            |   |               |          |             |                   |
|--|-------------|--------|-------|-----------|----------|-----------|----------|----------------|------------------|--|------------|---|---------------|----------|-------------|-------------------|
| RATING SCALE  A = May be used for                            |             |        |       |           | GUU      | DYE       |          |                | ERED F<br>L Hose |  | CIS        |   |               |          | FIIT        | TING              |
| Continuous Service   |             |        |       | 7         | 7        | 7         | 7        |                |                  |  | /          | 7   |               | _        |             | / /               |
| $\mathbf{B} = May$ be used for                               |             |        | /     |           | /        |           | /        | Brown Flexwing | Purple Flexwing  | Jole 7016                              |            | HI-PED® Viper                               | . /           | /        |             | / /               |
| Intermittent Service   |             | /      | ' /   | Vellow E. | !!!!     | '. /      | Flexwing | ing to the     |                  | Green KIPE                             | 20/        | <u>                                    </u> | / /           | //       | / /         | / /               |
| I = Insufficient data, contact<br>customer services          |             | Fabcho | • /   |           | Tan Flor |           | , / ex   | 8 / 8 E        |                  | TP TEX                                 | exmi)      | <i></i> 90/                                 | Install       | Install  | Insta-1     | Insta-Lock        |
| $\mathbf{X} = Do \text{ not use}$                            |             | pcho   | 3/ E  |           | 74/2     | )<br>110° | exwi     |                | #   <u>#</u>     | . (ell)                                |            | HI-PFD®                                     | $\frac{1}{2}$ |          | 7 / E       | 7-e <sub>ts</sub> |
| GASKET   | (F)         |        | 9     | 120       | 79/      | / 8       | 1        | ET BY          | E 12             | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | \(\sigma\) | / ☀   | <u> </u>      | / 💐      | / <u>\$</u> | / 🕊               |
| T = Teflon® V = Viton®                                       |             | UHMWPE |       | Hypalon®  |          | <u>e</u>  | <u>e</u> |                |                  |  | Alphasyn"  |   |               | Aluminum | S           | et                |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$ | atm.        | Ħ      | Butyl | Hypa      | ¥        | Viton®    | Nitrile  | CPE            | EPDM             | XLPE                                   | App        | Teflon®                                     | 316 SS        | Alm      | Brass       | Gasket            |
| <b>S</b> = Silicone  | Temperature |        |       |           |          | 1100      | - TI     | DE DOI         | VMED             |  |            |   |               | M        | ETAL        |                   |
| D  | ₽           |        |       |           |          | HUS       | E IU     | BE POI         | LYWEK            |  |            |   |               | IVI      | EIAL        |                   |
| D.D.T. in Kerosene   | 100         | Α      | Χ     | Х         | Χ        | Α         | Α        | Α              | Χ                | Α                                      | В          | Α   | ı             | ı        | Α           | TVB               |
| D.M.P.   | 100         | Х      | Χ     | Х         | Χ        | Х         | Χ        | Х              | Х                | Х                                      | Α          | Α   | Α             | 1        | 1           | ΤV                |
| Decalin®   | 100         | Х      | Χ     | Х         | Х        | Α         | Х        | Х              | Х                | A                                      | Х          | Α   | ı             | ı        | ı           | ΤV                |
| Decanol  | 100         | Α      | Α     | A         | Х        | В         | Α        | Α              | Α                | Α                                      | Α          | Α   | 1             | 1        | 1           | T B               |
| Decyl Alcohol  | 100         | A      | A     | A         | X        | В         | A        | A              | A                | A                                      | A          | Α   | <u> </u>      | <br>     | 1           | T B               |
| Decyl Aldehyde   | 100         | A      | X     | X         | X        | X         | X        | <u> </u>       |                  | A                                      | В          | Α   | <u> </u>      | <u> </u> | <u> </u>    | T                 |
| Decyl Butyl Phthalate  | 100         | Α      | A     | X         | X        | Χ         | X        | ı              | ı                | A                                      |            | Α   | 1             | 1        | 1           | T                 |
| Denatured Alcohol  | 100         | A      | A     | A         | A        | В         | A        | A              | A                | A                                      | Α          | Α   | A             | В        | A           | T B               |
| Diacetone Alcohol  | 100         | A      | A     | В         | Х        | X         | X        | A              | X                | Α                                      | A          | Α   | A             | <u> </u> | -           | T V               |
| Diamyl Phenol  | 100         | Α      | Χ     | X         | В        | A         | ХВ       | A              | Х                | Α                                      | В          | A   | -             | 1        | 1           | T B               |
| Diamylamine Diamylene  | 100         | A      | X     | X         | Х        | A         | Х        | A<br>B         | Х                | A<br>                                  | В          | A   | +             | <u> </u> | <u> </u>    | TV                |
| Dibenzyl Ether   | 100         | A      | В     | X         | X        | I         | X        | Х              | X                | A                                      | В          | A   | A             | A        | Х           | T                 |
| Dibromobenzene   | 100         | В      | Х     | X         | Х        | A         | X        | 1              | χ                | A                                      | ı          | A   | ı             | ı        | ^<br>I      | TV                |
| Dibutyl Amine  | 100         | A      | Х     | X         | В        | Х         | В        | A              | Х                | A                                      | A          | A   | ÷             | i        | <u>'</u>    | T                 |
| Dibutyl Ether  | 100         | A      | Х     | В         | Х        | Х         | Х        | A              | Х                | A                                      | A          | A   | A             | A        | Х           | <u>'</u><br>      |
| Dibutyl Phthalate  | 100         | A      | A     | Х         | Х        | Х         | Х        | Х              | A                | A                                      | A          | Α   | A             | Α        | ı           | ΤV                |
| Dibutyl Sebacate   | 100         | A      | A     | Х         | Х        | Х         | Х        | В              | X                | A                                      | 1          | A   | 1             | ī        | i           | TVS               |
| Dicalcium Phosphate  | 100         | A      | A     | A         | A        | A         | A        | A              | A                | A                                      | A          | Α   | Ť             | Ť        | i           | TVB               |
| Dicamba  | 100         | Α      | ı     | ı         | ı        | ı         | ı        | ı              | Α                | Α                                      | ı          | Α   | ı             | ı        | ı           | T                 |
| Dichloroacetic Acid  | 100         | Α      | Χ     | Х         | В        | χ         | Χ        | В              | 1                | Α                                      | 1          | Α   | ı             | ı        | ı           | T                 |
| Dichlorobenzene  | 100         | Α      | Χ     | Х         | Χ        | Α         | Χ        | Х              | χ                | Α                                      | В          | Α   | Α             | В        | 1           | ΤV                |
| Dichlorobutane   | 100         | Α      | Χ     | Х         | Χ        | Α         | Χ        | Χ              | χ                | Α                                      | 1          | Α   | 1             | ı        | I           | ΤV                |
| Dichlorodifluoromethane                                      | 100         | ı      | χ     | Х         | Χ        | В         | В        | - 1            | Χ                | I                                      | Χ          | Α   | 1             | ı        | 1           | TVB               |
| Dichloroethane   | 100         | Α      | Χ     | Х         | Χ        | Α         | Χ        | Χ              | Χ                | Α                                      | Α          | Α   | 1             | Α        | 1           | ΤV                |
| Dichloroethyl Ether  | 100         | Α      | Χ     | Х         | Χ        | I         | χ        | В              | χ                | Α                                      | В          | Α   | ı             | I        | 1           | T                 |
| Dichloroethylene   | 100         | Х      | Χ     | Х         | Χ        | Α         | Χ        | I              | ı                | Χ                                      | Χ          | Α   | ı             | Α        | Χ           | ΤV                |
| Dichlorohexane   | 100         | Α      | Χ     | Х         | Χ        | Α         | Χ        | Χ              | Χ                | Α                                      | Α          | Α   | I             | ı        | ı           | ΤV                |
| Dichloropentane  | 100         | Α      | Χ     | Х         | Χ        | Α         | Χ        | Χ              | Χ                | Α                                      | В          | Α   | ı             | ı        | I           | ΤV                |
| Dichloropropane  | 100         | Α      | Χ     | Х         | Χ        | Α         | Χ        | Χ              | Χ                | В                                      | I          | Α   | Α             | Χ        | I           | ΤV                |
| Diesel Oil   | 150         | Α      | Χ     | Х         | Χ        | Α         | Α        | Α              | Χ                | Α                                      | В          | Α   | Α             | Α        | - 1         | TVB               |
| Diethanol Amine  | 100         | Α      | Α     | Х         | В        | I         | В        | Α              | I                | Α                                      | Α          | Α   | Α             | ı        | 1           | T                 |
| Diethyl Benzene  | 100         | А      | X     | Х         | χ        | Α         | χ        | Χ              | Χ                | A                                      | В          | Α   | - 1           |          | -           | ΤV                |



#### CHEMICAL CHARTS

This chemical chart is offered as a guide only. There are many variables to be considered with each application. Ratings are for tube polymer only! For explanation of ratings see the initial page of these Chemical Charts in Appendix B. Contact customer services for chemicals or polymers not listed at 800-235-4632.

|  |             |         |           |             |          |                 |          |                          |                         |            |           |            |         |                 |            | $\succeq$     |
|--|-------------|---------|-----------|-------------|----------|-----------------|----------|--------------------------|-------------------------|------------|-----------|------------|---------|-----------------|------------|---------------|
| RATING SCALE                                       |             |         |           | (           | GOOI     | )YE             |          |                          | ERED F<br>L Hose        |            | CTS       | •          |         |                 | FIT        | TING          |
| A = May be used for<br>Continuous Service          |             |         | _         | 7           | 7        | 7               |          |                          |                         |            | /         |            | 7       | _               |            | $\rightarrow$ |
| $\mathbf{B} = \mathbf{May}$ be used for            |             |         |           |             |          |                 |          | / 💂 /                    | <b>E</b> /              | <i>9</i> / |           | \#.        | . /     |                 |            |               |
| Intermittent Service                               |             | /       | /         | Vellow Fig. | / æ /    | / /             | Flexwing | Brown Flexwing Extremos: | Purple Flexwing Extreme | Green XIPE | <b>.</b>  | Viper      | / ,     | /               | / ,        | / /           |
| I = Insufficient data, contact                     |             | / /     | , /       |             |          | <b>&amp;</b> /. | exw.     | . XWIII                  | EXMI                    | P 6        |           | ~~~<br>~~~ |         | ** /            | <u>*</u> / | */*           |
| customer services<br><b>X</b> = Do not use         |             |         |           |             |          |                 |          |                          |                         |            | <u> </u>  |            | 5/2     | 2               |            | 07-e          |
|  |             | Fabcham | Gray Flo. | /#/         | Tan Flow | 0,41            | Fley     | Brow<br>Extre            | Extre                   | ere        | Chem o    | HI-PFD®    | Install | W Hoor - Tock W | Insta. I.  | Insta-Lock    |
| GASKET   | (F)         |         |           |             |          |                 |          |                          |                         | '          | 1         |            |         | Ē               |            |               |
| T = Teflon® V = Viton®<br>B = Nitrile N = Neoprene | ture        | UHMWPE  | Butyl     | Hypalon®    | ~        | Viton∞          | Nitrile  | 3                        | EPDM                    | XLPE       | Alphasyn" | Teflon®    | 316 SS  | Aluminum        | Brass      | Gasket        |
| <b>S</b> = Silicone                                | era         | =       | <u>—</u>  | ±.          | 쭏        | <del>-</del>    | Z        | 2                        | ₩                       | =          | ₹         | ۳          | က       | A               | B          | Ö             |
| D  | Temperature |         |           |             |          | HOS             | E TU     | BE POL                   | YMER                    |            |           |            |         | M               | ETAL       |               |
| Diethyl Carbinol                                   | 100         | Α       | Α         | Α           | Α        | В               | Α        | 1                        | 1                       | A          | Α         | Α          |         | ı               | 1          | TBN           |
| Diethyl Ketone                                     | 100         | A       | В         | Х           | Х        | Х               | Χ        | χ                        | Х                       | A          | В         | A          | Ė       | i               | i          | T             |
| Diethyl Oxalate                                    | 100         | A       | В         | Х           | В        | ī               | χ        | A                        | Х                       | A          | В         | A          | i       | i               | i          | <del>.</del>  |
| Diethyl Phthalate                                  | 100         | A       | A         | Х           | Х        | χ               | χ        | В                        | Х                       | A          | В         | A          | i       | Ť               | i          | <del>.</del>  |
| Diethyl Sebacate                                   | 100         | Α       | Α         | Χ           | χ        | χ               | χ        | В                        | Χ                       | Α          | В         | Α          | Α       | Α               | ı          | T             |
| Diethyl Sulfate                                    | 100         | Α       | В         | Χ           | χ        | χ               | χ        | Α                        | 1                       | Α          | Α         | Α          | Χ       | ı               | ı          | TNS           |
| Diethyl Triamine                                   | 100         | Α       | Α         | Χ           | В        | Ι               | В        | Α                        | I                       | Α          | Α         | Α          | 1       | ı               | ı          | T B           |
| Diethylamine                                       | 100         | Α       | Α         | Χ           | В        | Ι               | В        | В                        | В                       | Α          | В         | Α          | Α       | ı               | Χ          | ΤB            |
| Diethylene Dioxide                                 | 100         | Α       | В         | Χ           | χ        | χ               | Χ        | В                        | Α                       | Α          | Α         | Α          | Χ       | Χ               | Χ          | T             |
| Diethylene Glycol                                  | 100         | Α       | Α         | Α           | Α        | Α               | Α        | χ                        | Α                       | Α          | Α         | Α          | Α       | В               | Α          | TVBN          |
| Diethylene Triamine                                | 100         | Α       | Α         | Χ           | В        | 1               | В        | Α                        | I                       | Α          | Α         | Α          | ı       | ı               | Χ          | T             |
| Dihydroxydiethyl Ether                             | 100         | Α       | Α         | Α           | Α        | Α               | Α        | Α                        | Α                       | Α          | Α         | Α          | 1       | ı               | 1          | TVBN          |
| Dihydroxyethyl Amine                               | 100         | Α       | Α         | χ           | В        | Ι               | В        | Α                        | I                       | Α          | Α         | Α          | 1       | ı               | -          | T B           |
| Diisobutyl Ketone                                  | 100         | Α       | В         | Χ           | χ        | χ               | Χ        | I                        | В                       | Α          | В         | Α          | 1       | 1               | 1          | T             |
| Diisobutylene                                      | 100         | Α       | X         | Χ           | Χ        | Α               | Α        | χ                        | Χ                       | Α          | В         | Α          | Α       | 1               | -          | TVB           |
| Diisoctyl Adipate                                  | 100         | Α       | Α         | χ           | Χ        | χ               | χ        | I                        | 1                       | Α          | 1         | Α          | 1       | ı               | -          | T             |
| Diisoctyl Phthalate                                | 100         | Α       | Α         | Χ           | χ        | χ               | Χ        | ı                        | - 1                     | Α          | ı         | Α          | 1       | ı               | -          | T             |
| Diisocyanate                                       | 100         | Χ       | Χ         | Χ           | Χ        | χ               | Χ        | Χ                        | Χ                       | Х          | В         | Α          | 1       | ı               | -          | T             |
| Diisodecyl Adipate                                 | 100         | Α       | Α         | Χ           | χ        | χ               | χ        | I                        | - 1                     | Α          | ı         | Α          | 1       | ı               | 1          | T             |
| Diisodecyl Phthalate                               | 100         | Α       | Α         | Χ           | Χ        | Χ               | Χ        | ı                        | I                       | Α          | 1         | Α          | 1       | ı               | -          | T             |
| Diisopropanol Amine                                | 100         | Α       | Α         | Χ           | В        | Ι               | В        | ı                        | I                       | Α          | В         | Α          | 1       | ı               | -1         | T B           |
| Diisopropyl Amine                                  | 100         | Α       | Α         | χ           | В        | ı               | В        | I                        | - 1                     | Α          | В         | Α          | -       | I               | -          | T B           |
| Diisopropyl Ether                                  | 100         | Α       | Χ         | В           | Χ        | ı               | В        | I                        | Χ                       | Α          | В         | Α          | Α       | ı               | -          | T B           |
| Diisopropyl Ketone                                 | 100         | Α       | В         | χ           | Χ        | χ               | Χ        | - 1                      | В                       | Α          | В         | Α          | Α       | Α               | -          | T             |
| Dilauryl Ether                                     | 100         | Α       | - 1       | В           | Χ        | I               | В        | - 1                      | - 1                     | Α          | В         | Α          | - 1     | ı               |            | T B           |
| Dimethyl Amine                                     |             |         |           | HOSE        | REC      | OMME            |          |                          | IS APPL                 | ICATION    |           |            |         |                 |            |               |
| Dimethyl Benzene                                   | 100         | Α       | Χ         | χ           | χ        | Α               | Χ        | Х                        | Χ                       | Α          | В         | Α          | Α       | ı               | -          | T V           |
| Dimethyl Ether                                     | 100         | Α       | χ         | В           | χ        | 1               | В        | I                        | Χ                       | В          | В         | Α          | - 1     | I               | -          | T B           |
| Dimethyl Ketone                                    | 100         | Α       | Α         | χ           | В        | Χ               | Χ        | Α                        | Α                       | В          | Α         | Α          | Α       | Α               | -          | T             |
| Dimethyl Phenol                                    | 100         | Α       | Χ         | χ           | χ        | Α               | Χ        | I                        | Χ                       | Α          | Α         | Α          | 1       | ı               | -          | T V           |
| Dimethyl Phthalate                                 | 100         | Α       | Α         | χ           | χ        | χ               | Χ        | Α                        | В                       | Α          | Α         | Α          | Α       | ı               | 1          | ΤV            |
| Dimethyl Sulfate                                   | 100         | Α       | В         | χ           | χ        | Χ               | X        | Α                        | 1                       | Α          | Α         | Α          | 1       |                 | -1         | T             |
| Dimethyl Sulfide                                   |             |         | NO        | HOSE        | REC      | OMME            | NDED     | FOR TH                   | IS APPL                 | ICATION    |           |            |         |                 |            |               |

AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS



AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

APPENDIX

#### CHEMICAL CHARTS

|  |             |        |          |                      |          |           |                 |                                       |                  |            |           |                  |            |            |               | $\underline{}$ |
|--|-------------|--------|----------|----------------------|----------|-----------|-----------------|---------------------------------------|------------------|------------|-----------|------------------|------------|------------|---------------|----------------|
| <b>RATING SCALE A</b> = May be used for                      |             |        |          |                      | G00      | DYE/      |                 |                                       | ERED F<br>L Hose |            | CTS       | ;                |            |            | FIT           | TING           |
| Continuous Service   |             |        |          | 7                    | 7        | 7         |                 |                                       |                  |            | /         | 7                | 7          | 7          |               |                |
| $\mathbf{B} = May$ be used for                               |             |        | /        |                      | /        |           |                 |                                       | May /            | jg/        |           | ler w            |            | /          |               |                |
| Intermittent Service   |             | /      | ' /      | Vellow Er            | !!!      | <b>/</b>  | Flexwing        | Brown Flexwing<br>Extremes            |                  |            | 20/       | / <del>%</del> / | / /        | //         | / ,           | / /            |
| I = Insufficient data, contact<br>customer services          |             | /:     |          | ני / אווי<br>ני / זא | . / EXM  |           | , rex           |                                       | Fex.             | TE K       | exwi,     | <u></u>          | , /        | <u>`</u> z | <b>ặ</b> /    | ž / ž          |
| $\mathbf{X} = Do \text{ not use}$                            |             | Fabcho | 3/ E     |                      | Tan Fig. | )<br>110° | exwii           |                                       |                  |            | 1 / L     | HI-PED®          | Instal     |            | $\frac{3}{2}$ | Insta-Lock     |
| GASKET   | (F)         |        | 9        | /20/                 | 79/      | / 8       | / <del>**</del> | Brown Flexwing<br>Extreme             | Purple Flexwing  | Green XIPE | / 🖔       | HI-PED® Viper    | / <u>«</u> | Install    | 1307-55UJ     | / <b>#</b>     |
| <b>T</b> = Teflon® <b>V</b> = Viton®                         |             | UHMWPE | _        | Hypalon®             |          | _         | <u>e</u>        |                                       |                  |            | Alphasyn" | l .              |            | Aluminum   | S2            | et             |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$ | Temperature | H      | Butyl    | ¥ g                  | 쭞        | Viton®    | Nitrile         | 핆                                     | EPDM             | XIPE       | 를         | Teflon∘          | 316 SS     | ₩.         | Brass         | Gasket         |
| <b>S</b> = Silicone  | npe         |        |          |                      |          | 1100      | ·               | IDE DOI                               | VMED             |            |           |                  |            | N          | ETAI          |                |
| D  |             |        |          |                      |          | HUS       | et IU           | IBE POI                               | LYWEK            |            |           |                  |            | IVI        | ETA           |                |
| Dimethyl Carbinol  | 100         | Α      | Α        | Α                    | Α        | В         | Α               | A                                     | Α                | Α          | Α         | Α                | Α          | I          | ı             | TBNS           |
| Dinitrobenzene   | 100         | Α      | Х        | Х                    | Х        | Α         | Χ               | I                                     | ı                | Α          | В         | Α                | ı          | ı          | ı             | TV             |
| Dioctyl Adipate  | 100         | Α      | Α        | Х                    | X        | Х         | Χ               | Х                                     | В                | Α          | -         | Α                | -          | 1          | -             | T              |
| Dioctyl Amine  | 100         | Α      | Α        | Х                    | В        | 1         | В               | 1                                     | 1                | Α          | В         | Α                | 1          | I          | ı             | T              |
| Dioctyl Phthalate  | 100         | Α      | В        | Х                    | Х        | Α         | Χ               | Х                                     | Х                | Α          | Α         | A                | Α          | I          | I             | TV             |
| Dioctyl Sebacate   | 100         | A      | A        | X                    | X        | X         | Χ               | X                                     | В                | A          | 1         | A                | -          | 1          | ı             | TV             |
| Dioxane  | 100         | A      | В        | X                    | X        | X         | Χ               | В                                     | X                | A          | A         | A                | A          |            |               | T              |
| Dioxolane  | 100         | A      | Х        | X                    | X        | 1         | Χ               | B .                                   | X                | A          | В         | A                | <u> </u>   | 1          | <u> </u>      | T              |
| Diphenyl Phthalate   | 100         | A      | A        | X                    | X        | X         | X               | I                                     | <u> </u>         | A          | Α         | A                |            | !          | !             | T              |
| Dipropyl Ketone  | 100         | A      | В        | X                    | Х        | X         | Χ               | X                                     | l                | A          | Α         | A                | -          | 1          |               | T              |
| Dipropylamine  | 100         | A      | A        | X                    | В        | 1         | В               | В                                     | <u> </u>         | A          | Α         | A                |            |            | 1             | TVD            |
| Dipropylene Glycol   | 100         | A      | Α        | A                    | A        | A         | A               | A                                     | <u> </u>         | A          | Α         | A                | 1          | 1          | I             | TVB            |
| Disodium Phosophate  | 100         | A      | A        | A                    | A        | 1         | A               | A                                     | l<br>v           | A          | A         | Α                | Α          |            | В             | TB             |
| Divinyl Benzene  | 100         | A      | X        | X                    | X        | A         | X               | X                                     | X                | A          | В         | A                |            | 1          | 1             | TV             |
| Dodecyl Benzene  | 100         | A      | X        | X                    | X        | A         | X               | I                                     | X                | A          | В         | A                | -          | 1          | 1             | TV             |
| Dodecyl Toluene  | 100         | A      | X        | X                    | Х        | Α         | χ               | 1                                     | X                | A          | В         | A                | -          | 1          | 1             |                |
| Dow-Per  | 100         | Α      | X        | X                    |          | A         |                 | l                                     | X                | A          | В         | A                | -          | 1          | 1             | TV             |
| Dowtherm® A  Dowtherm® E                                     | 100         | Α      | Х        | X                    | X        | Α         | X               | X                                     | X                | A          | Α         | A                | -          | X          | 1             | T V<br>V       |
| Dowtherm® SR-1   | 100         | A      | A        |                      | A        | Α         | A               | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | X                | A<br>A     | A         | I<br>A           | -          | ٨          | 1             | TVB            |
|  | 100         | A      | A        | Α                    | А        | Α         | А               | Į Į                                   |                  | А          | А         | A                | ı          | '          | ı             | IVD            |
| Endolene   | 100         |        | 1        | 1                    | 1        |           | 1               |                                       | 1                | 1          | 1         |                  | 1          | _          | 1             | 1              |
| Epichlorohydrin  | 100         | I      | NU<br>NU | HUCI                 | F RFC    | UMME      | NDFD            | FOR TH                                | IS APPL          | I LATION   | 1         | '                | 1          | 1          | ı             | 1              |
| Ethanol  | 100         | Α      | A        | A                    | A        | В         | A               | A                                     | A                | A          | Α         | Α                | Α          | В          | Α             | TBN            |
| Ethanol Amine  | 100         | A      | A        | В                    | В        | ı         | В               | A                                     | В                | A          | В         | A                | A          | В          | 1             | TB             |
| Ethyl Acetate  | 100         | A      | В        | Х                    | Х        | Х         | Х               | В                                     | A                | A          | A         | A                | A          | A          | A             | T              |
| Ethyl Acetoacetate   | 100         | A      | В        | Х                    | Х        | Х         | Х               | A                                     | В                | A          | Α         | A                | В          | 1          | 1             | T              |
| Ethyl Acrylate   | 100         | A      | Х        | Х                    | Х        | Х         | Х               | В                                     | Х                | В          | В         | A                | A          | A          | A             | T              |
| Ethyl Alcohol  | 100         | A      | A        | A                    | A        | A         | A               | A                                     | A                | A          | A         | A                | A          | В          | Α             | TVBNS          |
| Ethyl Aldehyde   |             |        |          |                      |          |           |                 |                                       | IS APPL          |            |           | L .,             | ,          |            | ,,            | 1              |
| Ethyl Aluminum Dichloride                                    | 100         | Х      | Х        | Х                    | X        | В         | Х               | 1                                     | χ                | В          | 1         | Α                | L          | ı          | I             | ΤV             |
| Ethyl Benzene  | 100         | A      | X        | X                    | X        | A         | Х               | X                                     | X                | A          | В         | A                | A          | A          | Х             | TV             |
| Ethyl Butanol  | 100         | A      | Α        | Α                    | Α        | В         | Α               | A                                     | A                | Α          | Α         | Α                | I          | ı          | 1             | T B            |
| -  | 1           |        |          |                      |          |           |                 |                                       |                  |            |           |                  |            |            |               |                |



#### CHEMICAL CHARTS

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| of fatings see the initial page of these offendan            | ı           | търс   | Taix Di |           |           |            |              |                       |                         |            |           |  | 002.                        |              |          | $\succeq$        |
|--|-------------|--------|---------|-----------|-----------|------------|--------------|-----------------------|-------------------------|------------|-----------|--|-----------------------------|--------------|----------|------------------|
| RATING SCALE   |             |        |         |           | GOO       | DYE        |              |                       | ERED F<br>L Hose        |            | CTS       |  |                             |              | FIT      | TING             |
| <b>A</b> = May be used for Continuous Service                |             |        |         | 7         | 7         | 7          | 7            |                       |                         |            | /         |  |                             | _            |          |                  |
| $\mathbf{B} = May$ be used for                               |             |        | /       |           | /         |            |              | Brown Flexwing Extrem | <u>u</u>                | ale /      |           | Viper"                                 | . /                         |              |          |                  |
| Intermittent Service   |             | /      | ' /     | <br>      | .go/      | ′. /       | / <u>@</u> / | tole!                 | يَّةِ. / هَيِّ          |            | ر مخ      | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | / /                         | Ι,           | / ,      | / /              |
| I = Insufficient data, contact customer services             |             |        | . /     |           | exM       | Mijig<br>J | Jexy /       | e Per                 | rex Liex                | PE TEN     |           | , e j                                  | , /                         | ~_\ <b>c</b> | <u>*</u> | Insta-Lock       |
| $\mathbf{X} = \mathbf{Do} \text{ not use}$                   |             | Fabcha |         |           |           |            | NWin         |                       |                         |            |           | HI-PER                                 | $\frac{1}{2} / \frac{1}{2}$ | 7 / 4        | ) / c    | ]-e <sub>1</sub> |
| GASKET   | (F)         |        | 6ra     | Vellow E. | Tan Flore | 0,0        | Flexwing     | Brown Flexwing        | Purple Flexing  Extrem. | Green KIPE | 13        | HI-PEO® WIN                            | Insta (                     | Insta.       | Mazza (  |                  |
| T = Teflon® V = Viton®                                       |             | UHMWPE |         | ů         |           |            |              |                       |                         |            | Alphasyn" |  | SS                          | Aluminum     |          |                  |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$ | atnı        | E E    | Butyl   | Hypalon®  | NR        | Viton      | Nitrile      | CPE                   | EPDM                    | XLPE       | App       | Teflon®                                | 316 SS                      | HE HE        | Brass    | Gasket           |
| <b>S</b> = Silicone  | Temperature |        |         |           |           |            |              |                       |                         |            |           |  |                             |              |          |                  |
| E  | 둳           |        |         |           |           | HOS        | E TU         | BE POI                | LYMER                   |            |           |  |                             | IVI          | ETA      |                  |
| Ethyl Butyl Acetate  | 100         | Α      | Α       | В         | χ         | Χ          | Χ            | I                     | 1                       | Α          | В         | Α                                      | Ι                           | П            | - 1      | T                |
| Ethyl Butyl Alcohol  | 100         | Α      | Α       | Α         | Α         | В          | Α            | Α                     | Α                       | Α          | Α         | Α                                      | Ι                           |              | 1        | ТВ               |
| Ethyl Butyl Amine  | 100         | Α      | А       | Х         | В         | ı          | В            | ı                     | ı                       | ı          | ı         | Α                                      | -                           |              | ı        | T B              |
| Ethyl Butyl Ketone   | 100         | Α      | В       | Х         | χ         | Χ          | Χ            | Х                     | I                       | Α          | Α         | Α                                      | -                           |              | ı        | T                |
| Ethyl Butyraldehyde  | 100         | Α      | В       | Х         | χ         | Χ          | Χ            | Х                     | 1                       | Α          | В         | Α                                      | -1                          |              | -1       | T                |
| Ethyl Chloride   |             |        | NO      | HOSI      | REC       | OMME       |              | FOR TH                | IS APPL                 | ICATION    |           |  |                             |              |          |                  |
| Ethyl Dichloride   | 100         | В      | χ       | Х         | Χ         | В          | X            | Х                     | Χ                       | В          | В         | Α                                      | -1                          |              | 1        | TV               |
| Ethyl Ether  |             |        | NO      | HOSI      | REC       | OMME       | NDED         | FOR TH                | IS APPL                 | ICATION    |           |  | •                           |              |          |                  |
| Ethyl Formate  | 100         | Α      | В       | Х         | Χ         | Χ          | Χ            | Α                     | В                       | Α          | Α         | Α                                      | Α                           |              | ı        | TV               |
| Ethyl Hexanol  | 100         | Α      | Α       | A         | Α         | В          | Α            | Α                     | Α                       | Α          | Α         | Α                                      | Ι                           |              | 1        | TBN              |
| Ethyl Hexoic Acid  | 100         | Α      | Χ       | В         | Χ         | ı          | Χ            | ı                     | - 1                     | Α          | Α         | Α                                      | Ι                           |              | 1        | T                |
| Ethyl Hexyl Acetate  | 100         | Α      | Α       | В         | Х         | Χ          | Χ            | ı                     | ı                       | Α          | В         | Α                                      | - 1                         |              | 1        | T                |
| Ethyl Hexyl Alcohol  | 100         | Α      | Α       | A         | Α         | В          | Α            | A                     | Α                       | А          | Α         | Α                                      | ı                           |              | ı        | TBN              |
| Ethyl lodide   | 100         | Х      | χ       | Х         | Χ         | В          | Χ            | Х                     | Χ                       | В          | В         | Α                                      | Ι                           |              | 1        | TV               |
| Ethyl Isobutyl Ether   | 100         | Α      | χ       | В         | Χ         | I          | В            | I                     | Х                       | A          | В         | Α                                      | ı                           |              | 1        | T                |
| Ethyl Methyl Ketone  | 100         | Α      | В       | Х         | χ         | χ          | χ            | I                     | 1                       | Α          | Α         | Α                                      | Α                           | Α            | Α        | T                |
| Ethyl Oxalate  | 100         | Α      | Α       | Х         | Α         | ı          | Χ            | Α                     | Х                       | Α          | В         | A                                      | ı                           |              | ı        | TV               |
| Ethyl Phthalate  | 100         | A      | Α       | Х         | Х         | χ          | Χ            | В                     | ı                       | A          | ı         | A                                      | ı                           |              |          | T                |
| Ethyl Propyl Ether   | 100         | Α      | χ       | В         | Χ         | ı          | В            | Α                     | Х                       | Α          | В         | Α                                      | ı                           |              | ı        | T B              |
| Ethyl Propyl Ketone  | 100         | Α      | В       | Х         | Х         | Х          | Χ            | I                     | - 1                     | Α          | Α         | A                                      | ı                           |              | ı        | T                |
| Ethyl Silicate   | 100         | A      | Α       |           | Х         | ı          | Α            | A                     | ı                       | A          | Α         | A                                      | Α                           |              | 1        | TBN              |
| Ethyl Sulfate  | 100         | Α      | В       | Х         | Χ         |            | Χ            | A                     | ı                       | Α          | Α         | A                                      | Χ                           |              | ı        | TBS              |
| Ethylamine   |             |        |         |           |           |            |              | FOR TH                | IS APPL                 |            |           |  |                             |              |          |                  |
| Ethylene Bromide   | 100         | Х      | Х       | Х         | Х         | В          | Х            | I                     | Х                       | В          | В         | A                                      | Α                           | X            | 1        | TV               |
| Ethylene Chloride  | 100         | В      | Χ       | Х         | Χ         | В          | Χ            | I                     | Х                       | В          | В         | Α                                      | Α                           | В            | ı        | TV               |
| Ethylene Diamine   | 100         | A      | Α       | Х         | В         | ı          | В            | I                     | В                       | A          | ı         | A                                      | A                           |              | -        | T B              |
| Ethylene Dibromide   | 100         | X      | X       | X         | Х         | В          | X            | <u> </u>              | Х                       | В          | В         | A                                      | Α                           | X            | I        | TV               |
| Ethylene Dichloride  | 100         | В      | Х       | Х         | X         | В          | Χ            | Х                     | Х                       | В          | Α         | A                                      | Α                           | В            | Ι        | TV               |
| Ethylene Glycol  | 150         | A      | A       | A         | A         | A          | Α            | A                     | A                       | A          | A         | A                                      | A                           | A            | I        | TVBNS            |
| Ethylhexil Phosphorodieth                                    | 100         | 1      | X       | Х         | - 1       |            | A            | A                     | X                       | Х          |           |  | I                           |              | 1        | В                |
| Ex-Tri   | 100         | A      | Х       | Х         | Χ         | Α          | X            |                       |                         | A          | В         | A                                      |                             |              |          | TV               |

AIR & MULTIPURPOSE General Purpose Heavy Duty

> CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS





AIR &
MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

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**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
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Washdown

WELDING

COUPLING SYSTEMS

APPENDIX

#### CHEMICAL CHARTS

|  | GOODYEAR ENGINEERED PRODUCTS |         |       |           |           |        |                     |                        |   |            |                |                                       |   |          | $\overline{}$ |            |
|--|------------------------------|---------|-------|-----------|-----------|--------|---------------------|------------------------|---|------------|----------------|---------------------------------------|---|----------|---------------|------------|
| RATING SCALE  A = May be used for                            |                              |         |       |           | GOO       | DYE/   |                     |                        | ERED F<br>L Hose                              |            | ICTS           | i                                     |   |          | FIT           | TING       |
| Continuous Service   |                              |         |       | 7         | 7         | 7      | 7                   | / /                    | /   |            | 7              | 7                                     | 7                                       | 7        |               |            |
| <b>B</b> = May be used for                                   |                              |         | /     | /         | /         |        | /                   |                        | <u>                                      </u> | 9/6        |                | er 3                                  |   | /        |               |            |
| Intermittent Service   |                              | /       | ′ /   | (e, /     | .gg /     | /      | . <u>@</u> /        | , tole                 | يَّةِ / فَعَرِهُ                              |            | رمخ            | / <u>i</u>                            | / /                                     | / ,      | / ,           | / /        |
| I = Insufficient data, contact customer services             |                              | / /     | [ / . |           | GXW       |        | , / je <sub>X</sub> | e Per                  | exw Fex                                       | F 64       | XWin           | <u> </u>                              | $\cdot /$                               | <u>*</u> | * /           | Insta-Lock |
| $\mathbf{X} = \mathbf{Do} \text{ not use}$                   |                              |         |       |           |           |        |                     |                        |   |            | 7 / E          | ֓֞֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓ | - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 2 / 10   | ?<br>?<br>?   | ta-10      |
| GASKET   |                              | Fabchar | Gra   | Vellow E. | Tan Flore | 0,4    | Flexwing            | Brown Flexwing Extreme | Purple Flexwing                               | Green XIPE | ?/ <i>9</i> (5 | HI-PFD® Viper                         | Install                                 | Insta. L | Insta (       |            |
| T = Teflon® V = Viton®                                       | (F)                          |         |       |           |           |        |                     |                        |   |            | Alphasyn"      |                                       |   | Aluminum |               |            |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$ | Ħ.                           | UHMWPE  | Butyl | Hypalon⊗  | æ         | Viton® | Nitrile             | 핆                      | EPDM  | XLPE       | Ipha           | Teflon∘                               | 316 SS                                  | Ē        | Brass         | Gasket     |
| <b>S</b> = Silicone  | Temperature                  |         |       |           |           | _      |                     |                        |   |            | _              |                                       | ٠,                                      |          |               |            |
| F  | Tem                          |         |       |           |           | HOS    | E TU                | IBE POI                | LYMER   |            |                |                                       |   | M        | ETA           |            |
| Ferric Bromide   | 150                          | Α       | Α     | Α         | Α         | Α      | Α                   | А                      | А   | Α          | Α              | Α                                     | -1                                      | Ι        | -1            | TVB        |
| Ferric Chloride  | 150                          | Α       | А     | Α         | А         | Α      | Α                   | A                      | Α   | Α          | Α              | Α                                     | Χ                                       | Χ        | Χ             | TVBNS      |
| Ferric Sulfate   | 150                          | Α       | Α     | Α         | Α         | Α      | Α                   | A                      | Α   | Α          | Α              | Α                                     | Α                                       | Χ        | Χ             | TVBN       |
| Ferrous Acetate  | 100                          | Α       | Α     | Α         | Χ         | χ      | Χ                   | I                      | - 1   | Α          | Α              | Α                                     | Ι                                       | 1        | -             | T          |
| Ferrous Chloride   | 150                          | Α       | Α     | Α         | A         | В      | Α                   | A                      | Α   | Α          | Α              | Α                                     | - 1                                     | Χ        | Χ             | TB         |
| Ferrous Hydroxide  | 100                          | A       | Α     | В         | Α         | Χ      | В                   | I                      | 1   | Α          | Α              | Α                                     | В                                       | ı        | ı             | TN         |
| Ferrous Sulfate  | 150                          | Α       | Α     | Α         | Α         | Α      | Α                   | A                      | Α   | Α          | Α              | Α                                     | В                                       | Χ        | Χ             | TVBN       |
| Fluoboric Acid 65%   | 150                          | В       | Α     | Α         | A         | ı      | 1                   | A                      | - 1   | I          | Α              | Α                                     | - 1                                     | ı        | Х             | TN         |
| Fluorine (wet)   | 100                          | χ       | Χ     | χ         | Х         | Χ      | Χ                   | Х                      | Х   | Х          | Х              | В                                     | Х                                       | Х        | Х             | T          |
| Fluosilicic Acid 50%   | 150                          | В       | Α     | Α         | A         | -      | 1                   | A                      | 1   | I          | Α              | Α                                     | Α                                       | Χ        | Χ             | TN         |
| Formaldehyde 40%   | 100                          | A       | A     | A         | В         | В      | Α                   | A                      | A   | A          | Α              | Α                                     | Α                                       | В        | <u> </u>      | TB         |
| Formalin   | 100                          | A       | A     | A         | В         | A      | A                   | A                      | A   | A          | Α              | Α                                     | A                                       | В        | l<br>v        | TVB        |
| Formic Acid  | 100                          | A       | A     | X         | В         | χ      | χ                   | A                      | A   | В          | A              | Α                                     | В                                       |          | X             | TV         |
| Freon® 12 Freon® 22  | 100                          | A<br>A  | X     | X         | X         | Х      | B<br>X              |                        | X   | B<br>B     | X              | A                                     | A                                       | 1        | 1             | TN         |
| Fuel A (ASTM)  | 100                          | В       | X     | X         | Х         | A      | ^<br>A              | l                      | Х   | В          | В              | A                                     | A                                       | A        | A             | TVB        |
| Fuel B (ASTM)  | 100                          | В       | Х     | Х         | Х         | A      | A                   | l                      | Х   | В          | В              | A                                     | ı                                       | 1        | ı             | TVB        |
| Fuel Oil   | 100                          | A       | Х     | X         | X         | A      | A                   | X                      | X   | В          | В              | A                                     | A                                       | A        | i             | TVB        |
| Furfural   | 100                          | A       | A     | <br>      | 1         | Х      | Х                   | A                      | В   | A          | A              | A                                     | A                                       | Α        | Х             | T          |
| Furfuryl Alcohol   | 100                          | A       | χ     | Ī         | Ī         | Χ      | 1                   | A                      | 1   | A          | Α              | Α                                     | A                                       | Α        | 1             | T          |
| G  |                              |         |       |           |           |        |                     | l                      |   |            |                |                                       |   |          |               |            |
| Gallic Acid  | 100                          | Α       | В     | Ι         | Α         | ı      | -                   | A                      | В   | I          | В              | Α                                     | В                                       | ı        | ı             | TS         |
| Gasoline   | 100                          | В       | χ     | Χ         | Х         | Α      | Α                   | В                      | χ   | В          | В              | Α                                     | Α                                       | ı        | 1             | TVB        |
| Glacial Acetic Acid  | 100                          | Α       | В     | χ         | Χ         | Χ      | χ                   | В                      | Α   | Α          | Α              | Α                                     | Α                                       | В        | Χ             | T          |
| Gluconic Acid  | 100                          | Α       | χ     | В         | Χ         | I      | Χ                   | Α                      | 1   | Α          | Α              | Α                                     | Χ                                       | Χ        | Α             | T          |
| Glycerin   | 100                          | Α       | Α     | Α         | Α         | Α      | Α                   | Α                      | Α   | В          | Α              | Α                                     | Α                                       | Α        | Α             | TVBNS      |
| Glyphosate   | 100                          | Α       | - 1   | I         | -         | -      | ı                   | ı                      | Α   | ı          | 1              | Ι                                     | ı                                       | I        | I             | ı          |
| Graffinite   | 100                          | -       | χ     | Χ         | Χ         | Χ      | Α                   | A                      | χ   | Χ          | -              | _                                     | _                                       | 1        | -             | В          |
| Grease   | 100                          | Α       | χ     | Χ         | Χ         | Α      | Α                   | ı                      | χ   | В          | Α              | Α                                     | Α                                       | Α        | Α             | TVB        |
| Green Sulfate Liquor   | 150                          | Α       | Α     | Α         | Α         | I      | Α                   | Α                      | Α   | Α          | Α              | Α                                     | Α                                       | Χ        | Χ             | TBS        |
| Н  |                              |         |       |           |           |        |                     |                        |   |            |                |                                       |   |          |               |            |
| Heptanal   | 100                          | Α       | χ     | Χ         | Χ         | Χ      | Χ                   | Х                      | ı   | Α          | 1              | Α                                     | - 1                                     | I        | Ī             | T B        |
| Heptane  | 100                          | Α       | χ     | Χ         | Χ         | Α      | Α                   | A                      | Х   | В          | В              | Α                                     | Α                                       | Α        | I             | TVB        |



#### CHEMICAL CHARTS

This chemical chart is offered as a guide only. There are many variables to be considered with each application. Ratings are for tube polymer only! For explanation of ratings see the initial page of these Chemical Charts in Appendix B. Contact customer services for chemicals or polymers not listed at 800-235-4632.

| RATING SCALE   |             |         |        |           | GUUI      | NYF <i>L</i> | R F      | NGINE                            | FRFN F          | PRODII                | CTS       |         |          |               |              |            |
|--|-------------|---------|--------|-----------|-----------|--------------|----------|----------------------------------|-----------------|-----------------------|-----------|---------|----------|---------------|--------------|------------|
| A = May be used for  |             |         |        |           | u00.      | J 1 L7       |          | MICAL                            | . HOSE          | •                     | 0.0       |         |          |               | FIT          | TING       |
| Continuous Service   |             |         |        |           | /         | /            | /        | /_/                              | Purple Flexwing | / يون /               | /         | Mr.     |          | $\mathcal{I}$ |              | ///        |
| <b>B</b> = May be used for Intermittent Service              |             | /       | /      | /<br>@ /  | / مہ      | / ,          | /<br>&   | Brown Flexwing<br>Extremer: wing | e om            |                       |           | Viper " |          | /             | /            | / /        |
| I = Insufficient data, contact                               |             | / /     | , /    | Vellow EL | Tan Flore |              | Flexwing | Swin etr                         | EXWIII          | Green KLPE<br>Blue F. | Milling/  | £ /     |          | **/           | <u>'</u> × / | */*        |
| customer services<br><b>X</b> = Do not use                   |             |         |        |           |           |              |          |                                  |                 |                       | <u> </u>  |         | 5/3      |               |              | Insta-Lock |
| GASKET   |             | Fabchar | Gray   | /e//      | Tan       | 0,a          | Fle      | Extr.                            | Ext.            | 67.6                  | 7/3°      | HI-PFD® | Insta (  | Insta.        | Insta. L     | list I     |
| T = Teflon® V = Viton®                                       | E.          |         |        |           |           |              |          |                                  |                 |                       |           |         |          | E L           |              |            |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$ | Temperature | UHMWPE  | Butyl  | Hypalon®  | æ         | Viton®       | Nitrile  | CPE                              | EPDM            | XLPE                  | Alphasyn" | Teflon∞ | 316 SS   | Aluminum      | Brass        | Gasket     |
| <b>S</b> = Silicone  | npera       | _       |        | _         |           |              |          |                                  |                 |                       |           |         |          |               |              |            |
| Н  | ᆵ           |         |        |           |           | HOS          | E TU     | BE POL                           | YMER.           |                       |           |         |          | M             | ETAL         |            |
| Heptane Carboxylic Acid                                      | 100         | Α       | Χ      | В         | Χ         | Α            | Χ        | А                                | - 1             | Α                     | А         | Α       | ı        | I             | - 1          | ΤV         |
| Hexaldehyde  | 100         | Α       | Χ      | χ         | Χ         | Χ            | Χ        | I                                | Х               | Α                     | В         | Α       | Α        | Α             | 1            | T          |
| Hexane   | 100         | В       | Χ      | χ         | χ         | Α            | Α        | В                                | Х               | В                     | В         | Α       | Α        | Α             | Α            | TVB        |
| Hexanol  | 100         | Α       | A      | Α         | A         | В            | Α        | Α                                | Α               | Α                     | Α         | Α       | Α        | ı             | 1            | T B        |
| Hexyl Methyl Ketone  | 100         | A       | В      | X         | Х         | X            | X        | <u> </u>                         | <u> </u>        | A                     | A         | A       | 1        | I             | 1            | T          |
| Hexylamine   | 100         | A       | В      | X         | Χ         | X            | X        | В                                | l               | A                     | В         | A       | <u> </u> | 1             | 1            | TVD        |
| Hexylene   | 100         | Χ       | X      | Χ         | Χ         | A            | A        | I                                | X               | X                     | I         | Α       | 1        |               | I            | TVDN       |
| Hexylene Glycol  | 150         | Α       | A      | Α         | A         | A            | A        | A                                | l<br>v          | A                     | A         | Α       | A        | В             | A            | TVBN       |
| Hexyl-Alcohol Hi-Tri   | 100         | A<br>A  | A<br>X | A<br>X    | A<br>X    | B<br>A       | A<br>X   | A                                | X               | A<br>A                | A<br>B    | A       | A        | I             |              | T B<br>T V |
| Hydrobromic Acid (37%)                                       | 150         | В       | A      | A         | A         | ı            | X        | A                                | A               | I                     | A         | A       | Х        | Х             | χ            | TN         |
| Hydrochloric Acid 38%  | 130         | U       | А      | А         | Λ         |              | ٨        |                                  | Λ               |                       |           |         |          | ^             | Λ            | 1 11       |
| concentrated, fuming acid                                    | 125         | Α       | В      | χ         |           | 1            | Χ        | χ                                | - 1             | Α                     | 1         | Α       | Х        | Х             | Х            | T          |
| Hydrochloric Acid 37%  | 125         | Α       | В      | Α         | В         | χ            | χ        | Α                                | В               | Α                     | Α         | Α       | Х        | Χ             | χ            | T          |
| Hydrofluoric Acid (10%)                                      | 125         | Α       | Α      | Α         | χ         | ı            | Χ        | Α                                | - 1             | Α                     | Α         | Α       | Α        | Χ             | Χ            | TN         |
| Hydrofluosilicic Acid  | 150         | В       | В      | Α         | Α         | ı            | ı        | Α                                | Α               | I                     | Α         | Α       | Α        | Χ             | Χ            | T          |
| Hydrogen Dioxide 10%   | 100         | В       | χ      | χ         | χ         | Α            | Χ        |                                  | - 1             | - 1                   | 1         | Α       | Α        | В             | χ            | ΤV         |
| Hydrogen Dioxide over 10%                                    | 100         | В       | χ      | χ         | χ         | -            | Χ        | -                                | Χ               | I                     | I         | Α       | _        | I             | Χ            | T          |
| Hydrogen Gas   |             |         | NO     | HOSE      | REC       | OMME         | NDED     | FOR TH                           | IS APPL         | ICATION               |           |         |          |               |              |            |
| Hydrogen Peroxide 10% to 50%                                 | 100         | В       | Χ      | χ         | χ         | Α            | Χ        | Α                                | - 1             | I                     | 1         | Α       | -1       | В             | 1            | TVS        |
| Hydrogen Peroxide over 50%                                   | 100         | χ       | Χ      | χ         | Χ         | Χ            | Χ        | Х                                | Χ               | Х                     | -         | Α       | Α        | ı             | X            | T          |
|  |             |         |        |           |           |              |          |                                  |                 |                       |           |         |          |               |              |            |
| lodine   | 100         | Α       | -      | Α         | - 1       | ı            | ı        | Α                                | - 1             | В                     | 1         | Α       | 1        | ı             | Χ            | TVB        |
| Iron Acetate   | 100         | Α       | Α      | Α         | Х         | Χ            | Χ        | I                                | ı               | Α                     | Α         | Α       | - 1      | ı             | ı            | TNS        |
| Iron Hydroxide   | 100         | Α       | Α      | В         | Χ         | Χ            | В        | 1                                | 1               | Α                     | Α         | Α       | 1        | I             | 1            | TN         |
| Iron Salts   | 150         | A       | Α      | A         | A         | A            | A        | Α                                | A               | A                     | Α         | Α       | <u> </u> | 1             | I            | TVBN       |
| Iron Sulfate   | 150         | A       | A      | A         | A         | A            | A        | A                                | A               | A                     | Α         | A       | <u> </u> | <br>          | 1            | TVBN       |
| Iron Sulfide   | 150         | A       | A      | A         | A         | A            | A        | A                                | A               | A                     | A         | A       | -        |               | 1            | TVB        |
| Isoamyl Alcetate   | 100         | A       | A      | В         | X         | Х            | Χ        | 1                                | Χ               | A                     | В         | A       | Λ        |               | 1            | TDN        |
| Isoamyl Alcohol Isoamyl Bromide                              | 100         | A<br>B  | A<br>X | X         | A<br>X    | B<br>B       | A<br>X   | A<br>I                           | A<br>X          | A<br>B                | A         | A       | A        |               | A            | TBN<br>T V |
| Isoamyl Butyrate   | 100         | В       | Х      | χ         | Х         | Х            | Х        | <br>                             |                 | В                     | В         | A       | <br>     | I             | 1            | T          |
| Isoamyl Chloride   | 100         | Х       | χ      | Χ         | Х         | В            | Χ        | 1                                | <u> </u>        | Х                     | В         | A       | ı        | ı             | ı            | TV         |
| isvalliyi Gilioliue  | 100         | ٨       | ٨      | ٨         | ٨         | ט            | ٨        | I                                |                 | ٨                     | D         | А       | ı        |               | ı            | 1 V        |

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WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

**CHEMICAL TRANSFER** 

**EQUIPMENT** 

FOOD Washdown

MARINE

MATERIAL HANDLING Abrasives **Bulk Transfer** Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

**VEYANCE** 

WATER Suction & Washdown

COUPLING **SYSTEMS** 

VACUUM

WELDING

CHEMICAL CHARTS

| RATING SCALE  A = May be used for  |             |        |           |               | G00       | DYE       |         |                | ERED F  |         | CTS       | ,                |        |          | FIT      | TING       |
|--|-------------|--------|-----------|---------------|-----------|-----------|---------|----------------|---------|---------|-----------|------------------|--------|----------|----------|------------|
| Continuous Service  B = May be used for Intermittent Service  I = Insufficient data, contact customer services  X = Do not use  GASKET | (°F)        | Fahcha | Gray F.C. | Yellow E.     | Tan Flori | Orango F. |         | Brown Flexwing |         |         | Chem C    | HI-PEP® & Viper" | /      | Install  | Install  | Insta-Lock |
| T = Teflon® V = Viton®   |             | UHMWPE |           | Hypalon⊗      |           |           |         |                |         |         | Alphasyn™ | ı                | SS     | Aluminum |          | et         |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$   | Temperature | H      | Butyl     | Hyps          | N.        | Viton®    | Nitrile | CRE            | EPDM    | XLPE    | Appl      | Teflon®          | 316 SS | Alum     | Brass    | Gasket     |
| <b>S</b> = Silicone  | mpe         |        |           |               |           | HOS       | F TII   | BE POI         | YMFR    |         |           |                  |        | М        | ETAL     |            |
| I  | ·           |        |           |               |           | 1100      |         | DE 1 01        |         |         |           |                  |        |          |          |            |
| Isoamyl Ether  | 100         | A      | Х         | В             | X         | I         | В       | 1              | X       | A       | 1         | A                | -      | 1        | ı        | T          |
| Isoamyl Phthalate  | 100         | Α      | A         | Х             | X         | X         | Х       |                | 10 4001 | A       | ı         | A                | ı      | ı        | ı        | T          |
| Isobutane  | 100         |        |           |               |           |           |         |                | IS APPL |         |           | _                | ۸      |          |          | TDNO       |
| Isobutanol   | 100         | A      | A         | A             | A         | В         | A       | A              | A       | A       | A         | A                | A      | I        | <br>     | TBNS       |
| Isobutyl Acetate   | 100         | A      | A         | В             | X         | X         | X       | В              | X       | A       | В         | A                | A      | В        | <u> </u> | TNO        |
| Isobutyl Alcohol   | 100         | A      | A         | <u>А</u><br>Х | A         | Х         | X       | A              | A       | A       | A         | A                | A      | +        | 1        | TNS        |
| Isobutyl Aldehyde  | 100         | A      | B<br>B    | χ             | X         | Х         | X       | B              | 1       | A<br>A  | B         | A                | -      | 1        | !        |            |
| Isobutyl Amine Isobutyl Bromide  | 100         | A<br>B | Х         | X             | X         | B         | Х       | 1              | X       | Х       | D<br>I    | A                | _      | 1        | <u> </u> |            |
| Isobutyl Carbinol  | 100         | A      | A         | ^<br>_A       | A         | В         | A       | A              | A       | A       | A         | A                | A      | 1        | A        | TBN        |
| Isobutyl Chloride  | 100         | В      | Х         | Х             | Х         | В         | Х       | I              | Х       | Х       | 1         | A                | л<br>I | i        | л<br>I   | T V        |
| Isobutyl Ether   | 100         | A      | X         | В             | X         | ı         | Х       | 1              | Х       | A       | <u>'</u>  | A                | ÷      | ı        | i        | T B        |
| Isobutylene  | 100         | A      | X         | Х             | X         | A         | Х       | i              | Х       | A       | В         | A                | i      | i        | i        | TV         |
| Isooctane  | 100         | В      | Х         | Х             | Х         | A         | A       | i              | Х       | В       | В         | A                | A      | A        | A        | TVBS       |
| Isopentane   |             |        |           |               |           |           |         | FOR TH         | IS APPL |         |           |                  | - / \  |          | 7.       | 1400       |
| Isophorone   | 100         | В      | A         | 1             | I         | 1         | X       | 1              | A       | В       | В         | Α                | В      | Α        | 1        |            |
| Isopropanol  | 100         | A      | A         | A             | A         | В         | A       | A              | A       | A       | A         | Α                | A      | 1        | ı        | TVBS       |
| Isopropanol Amine  | 100         | A      | A         | Х             | В         | Х         | В       | 1              | 1       | Α       | В         | A                | T      | i        | Ī        | T B        |
| Isopropyl Acetate  | 100         | Α      | Α         | Χ             | Х         | χ         | χ       | В              | Χ       | Α       | Α         | Α                | Α      | ı        | ı        | T          |
| Isopropyl Alcohol  | 100         | Α      | Α         | Α             | Α         | В         | Α       | Α              | Α       | Α       | Α         | Α                | Α      | ı        | ı        | TBNS       |
| Isopropyl Amine  | 100         | Α      | В         | Χ             | Х         | χ         | χ       | I              | 1       | Α       | В         | Α                | ı      | ı        | 1        | T          |
| Isopropyl Benzene  | 100         | Α      | χ         | Χ             | Χ         | Α         | χ       | Х              | Χ       | Α       | В         | Α                | -      | ı        | 1        | ΤV         |
| Isopropyl Chloride   |             |        | NO        | HOSI          | E REC     | OMME      | NDED    | FOR TH         | IS APPL | ICATION |           |                  |        |          |          |            |
| Isopropyl Ether  | 100         | Α      | Χ         | В             | Χ         | ı         | Χ       | I              | Х       | Α       | В         | Α                | Α      | I        | - [      | T B        |
| Isopropyl Toluene  | 100         | А      | χ         | χ             | Χ         | Α         | χ       | _              | Х       | Α       | I         | Α                | _      | ı        | Ι        | ΤV         |
| J  |             |        |           |               |           |           |         |                |         |         |           |                  |        |          |          |            |
| Jet Fuels  |             |        |           |               | SP        | ECIAL     | HOSI    | REQUI          | RED     |         | •         |                  | Α      | Α        | Α        | TVB        |
| K  |             |        |           |               |           |           |         |                |         |         |           |                  |        |          |          |            |
| Kerosene   | 100         | Α      | χ         | Χ             | Χ         | Α         | Α       | Α              | Х       | Α       | Α         | Α                | Α      | Α        | - 1      | TVB        |
| L  |             |        |           |               |           | •         |         |                |         |         |           |                  |        |          |          |            |
| Lauryl Alcohol   | 100         | Α      | Α         | Α             | Α         | В         | Α       | А              | Α       | Α       | Α         | Α                | - 1    | I        | - [      | T B        |
| Lead Acetate   | 100         | Α      | Α         | Χ             | Χ         | χ         | χ       | А              | В       | Α       | Α         | Α                | Α      | Х        | Χ        | T          |
| -  |             |        |           |               |           |           |         |                |         |         | _         | _                |        | -        |          |            |





#### CHEMICAL CHARTS

This chemical chart is offered as a guide only. There are many variables to be considered with each application. Ratings are for tube polymer only! For explanation of ratings see the initial page of these Chemical Charts in Appendix B. Contact customer services for chemicals or polymers not listed at 800-235-4632.

|  | Ullaits     | GOODYEAR ENGINEERED PRODUCTS |       |                      |           |              |                |                        |                             |            |           |          |                  |  |            | <u> </u>   |
|--|-------------|------------------------------|-------|----------------------|-----------|--------------|----------------|------------------------|-----------------------------|------------|-----------|----------|------------------|--|------------|------------|
| RATING SCALE   |             |                              |       |                      | G00       | DYE/         |                |                        | ERED F<br>L Hose            |            | CTS       | ;        |                  |  | FIT        | TING       |
| <b>A</b> = May be used for Continuous Service                |             |                              | _     |                      | 7         |              | 7              |                        |                             |            | /         |          |                  |  |            |            |
| $\mathbf{B} = \text{May be used for}$                        |             |                              |       |                      |           |              |                |                        |                             | <i>9</i> / |           | # 1:     | . /              |  |            |            |
| Intermittent Service   |             | /                            | /     | /<br><sub>Q.</sub> / | [se /     | /            | . <b>18</b> 0/ | ole la                 | هَ ِ <sup>لِي</sup> فَكُورُ | رية كي     | Òo /      | Viper."  | / ,              | /  | / ,        | / /        |
| I = Insufficient data, contact                               |             | /                            | _ /   |                      | MX /      | <i>Bll</i> ] | , exw          |                        |                             | [bk]       | KWin.     | <i>§</i> |                  | * /  | <u>*</u> / | * \Z       |
| customer services<br><b>X</b> = Do not use                   |             | 1                            |       |                      |           |              | Wij.           |                        |                             |            |           |          | ; \ <del>.</del> | 07/2   | 07/2       | Insta-Lock |
| GASKET   |             | Fabcha                       | Gra   | Vellow EL            | Tan Flore | Ora,         | Flexwing       | Brown Flawing Extremes | Purple Flexing  Extrem.     | Green XIPE | Chem o    | HI-PED®  | lists 1          | Insta (  | Insta_L    |            |
| T = Teflon® V = Viton®                                       | E.          |                              |       |                      |           |              |                |                        |                             |            | Alphasyn" |          |                  |  |            |            |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$ | Temperature | UHMWPE                       | Butyl | Hypalon®             | NR        | Viton®       | Nitrile        | CPE                    | EPDM                        | XLPE       | Npha:     | Teflon®  | 316 SS           | Aluminum   | Brass      | Gasket     |
| <b>S</b> = Silicone  | bera        |                              |       |                      |           |              |                |                        |                             |            |           |          |                  |  |            |            |
|  | <u>E</u>    |                              |       |                      |           | HOS          | E TU           | BE POI                 | LYMER                       |            |           |          |                  | M  | ETAL       |            |
| Lead Sulfate   | 150         | Α                            | Α     | Α                    | Α         | Α            | Α              | Α                      | Α                           | Α          | Α         | Α        | Α                | Х  | χ          | TVBN       |
| Ligroin  | 100         | Α                            | χ     | χ                    | χ         | Α            | Α              | ı                      | Χ                           | Α          | В         | Α        | Α                | Α  | ı          | TVB        |
| Linseed Oil  | 100         | Α                            | Α     | В                    | Χ         | Α            | Α              | A                      | В                           | ı          | Α         | Α        | Α                | ı  | Α          | TVBNS      |
| Liquefied Natural Gas (LNG)                                  |             |                              | NO    | HOSE                 | REC       | OMME         | NDED           | FOR TH                 | IS APPL                     | ICATION    |           |          |                  |  |            |            |
| Liquefied Petroleum Gas (LPG)                                |             |                              | NO    | HOSE                 | REC       | OMME         | NDED           | FOR TH                 | IS APPL                     | ICATION    |           |          |                  |  |            |            |
| Lubricating Oils   | 100         | Α                            | χ     | χ                    | χ         | Α            | Α              | I                      | Χ                           | Α          | 1         | Α        | Α                | Α  | Α          | TVB        |
| М  | •           |                              |       |                      |           |              |                |                        |                             |            |           |          |                  |  |            |            |
| MIBK   | 100         | Α                            | χ     | χ                    | χ         | Χ            | Χ              | Х                      | χ                           | Α          | В         | Α        | Χ                | Х  | χ          | T          |
| M.E.K.   | 100         | Α                            | χ     | χ                    | χ         | Χ            | Χ              | Х                      | Χ                           | Α          | В         | Α        | Χ                | Χ  | Χ          | T          |
| Magnesium Acetate  | 100         | Α                            | Α     | Α                    | χ         | Χ            | Χ              | Α                      | 1                           | Α          | Α         | Α        | I                | ı  | 1          | T          |
| Magnesium Chloride   | 150         | Α                            | Α     | Α                    | Α         | Α            | Α              | Α                      | Α                           | Α          | Α         | Α        | Α                | Х  | I          | TVBS       |
| Magnesium Hydrate  | 150         | А                            | Α     | В                    | А         | В            | В              | _                      | I                           | Α          | Α         | Α        | Α                | Х  | - 1        | TN         |
| Magnesium Hydroxide  | 150         | Α                            | Α     | В                    | А         | В            | В              | Α                      | Α                           | Α          | Α         | Α        | Α                | Χ  | -1         | TVBN       |
| Magnesium Sulfate  | 150         | Α                            | Α     | A                    | Α         | Α            | Α              | Α                      | В                           | Α          | Α         | Α        | Α                | ı  | 1          | TVBNS      |
| Maleic Acid  | 100         | A                            | χ     | χ                    | χ         | I            | Χ              | 1                      | ı                           | В          | 1         | Α        | Α                | В  | Χ          | T V        |
| Malic Acid   | 150         | В                            | - 1   | A                    | Α         | ı            | ı              | - 1                    | - 1                         | I          | 1         | Α        | Α                | В  | Х          | TVBNS      |
| Manganese Sulfate  | 150         | Α                            | Α     | A                    | χ         | Α            | Α              | Α                      | Α                           | Α          | Α         | Α        | Α                | 1  | 1          | TVBN       |
| Manganese Sulfide  | 150         | Α                            | Α     | Α                    | Χ         | Α            | A              | Α                      | Α                           | Α          | Α         | Α        | 1                |  | 1          | TVB        |
| Manganese Sulfite  | 150         | A                            | Α     | A                    | Χ         | Α            | Α              | Α                      | Α                           | Α          | Α         | Α        | 1                | 1  | 1          | TVB        |
| Methanol   | 100         | Α                            | Α     | Α                    | Α         | X            | Α              | Α                      | Α                           | Α          | Α         | Α        | Α                |  | ı          | T B        |
| Mesityl Oxide  | 100         | Α                            | В     | Х                    | Χ         | Х            | Х              | В                      | Х                           | Α          | В         | Α        | Α                |  | ı          | T          |
| Methallyl Alcohol  | 100         | Α                            | Α     | Α                    | Α         | В            | Α              | A                      | Α                           | Α          | Α         | Α        | 1                |  | 1          | T B        |
| Methyl (Wood) Alcohol  | 100         | Α                            | Α     | A                    | Α         | X            | Α              | Α                      | Α                           | Α          | Α         | Α        | Α                |  | 1          | TBNS       |
| Methyl Acetate   | 100         | A                            | A     | В                    | Х         | Х            | X              | Α                      | A                           | Α          | Α         | Α        | Α                |  | l          | T          |
| Methyl Acetoacetate  | 100         | A                            | В     | X                    | Х         | Х            | Х              | A                      |                             | Α          | Α         | Α        |                  |  | I          | T          |
| Methyl Acetone   |             |                              |       |                      |           |              |                | FOR TH                 | IS APPL                     |            |           |          |                  | ١.   |            |            |
| Methyl Amyl Acetate  | 100         | В                            | A     | В                    | Х         | X            | X              | <u> </u>               | Х                           | A          | В         | Α        | <u> </u>         | <u> </u>   |            | T          |
| Methyl Amyl Alcohol  | 100         | A                            | A     | A                    | A         | В            | A              | A                      | A                           | A          | Α         | Α        |                  | <del>                                     </del> |            | TBN        |
| Methyl Amyl Carbinol   | 100         | Α                            | A     | A                    | A         | В            | A              | A                      | A                           | A          | A         | Α        |                  |  |            | T B        |
| Methyl Renzene   | 100         | A                            | В     | X                    | X         | X            | X              | X                      | V                           | A          | В         | Α        | Ι Λ              | I  | Ι Λ        | TV         |
| Methyl Benzene   | 100         | Α                            | X     | X                    | X         | A            | X              | X                      | X                           | A          | В         | Α        | A                | A  | Α          | TV         |
| Methyl Butanol   | 100         | A                            | A     | A                    | A         | В            | Α              | Α                      | I                           | Α          | Α         | Α        | Α                |  | A          | TBN        |

AIR & MULTIPURPOSE General Purpose Heavy Duty

> CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

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WATER
Discharge
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Discharge
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COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

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MATERIAL
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Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

#### CHEMICAL CHARTS

| RATING SCALE  |                    |        |          |           | <b>G00</b> | DYE/      |                 |  | ERED F<br>L HOSE |         | CTS         | ;         |               |               | FIT     | TING             |
|---|--------------------|--------|----------|-----------|------------|-----------|-----------------|--|------------------|---------|-------------|-----------|---------------|---------------|---------|------------------|
| <ul><li>A = May be used for<br/>Continuous Service</li><li>B = May be used for<br/>Intermittent Service</li></ul> |                    | /      |          | Vellow E. | Siling /   |           | 7               | Brown Flexwing   | ,                |         | /<br>       | & Viper"  |               |               |         |                  |
| I = Insufficient data, contact customer services  |                    | Fabcha | Gray FL. |           | Tan Flore  |           |                 | Se Per Se | Flex.            | KPE K   | exwii.      | HI-PED® W | Instari       | Insta. Lock   | Install | Insta-Lock       |
| $\mathbf{X} = \mathbf{Do} \text{ not use}$  |                    | pcho   | 14 /E    | Mol       | 1/2        | )<br>110° | exwii           |  |                  |         |             | HI-PED®   | $\frac{1}{2}$ | $\frac{1}{2}$ | 7 / fg  | 7-e <sub>1</sub> |
| GASKET  | (£)                |        | 9        |           | 12         | / 8       | / <del>**</del> | 45 43  | 4 3              | Ø 60 /  | / <u>\$</u> | /☀        | / ¥           | / <u>«</u>    |         | / 💐              |
| T = Teflon® V = Viton®  |                    | UHMWPE | _        | Hypalon⊗  |            | _ ≗       | <u>e</u>        |  |                  |         | Alphasyn"   | ů.        | SS            | Aluminum      | S       | ket              |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$  | <b>Femperature</b> | 1      | Butyl    | Нур       | R          | Viton®    | Nitrile         | CPE.   | EPDM             | XLPE    | 骨           | Teflon®   | 316 SS        | Alur          | Brass   | Gasket           |
| <b>S</b> = Silicone   | mpe                |        |          |           |            | шns       | E TII           | BE POI   | VMED             |         |             |           |               | М             | ETAL    |                  |
| M   | 쁘                  |        |          |           |            | поз       | DE TU           | DE FUL   | LIWIEK           |         |             |           |               | - IVI         |         |                  |
| Methyl Butanone   | 100                | Α      | В        | χ         | χ          | Х         | Χ               | В  | В                | Α       | В           | Α         | Τ             | ı             | -       | T                |
| Methyl Butyl Ketone   | 100                | Α      | В        | χ         | Х          | Х         | Χ               | Х  | - 1              | Α       | В           | Α         | Α             | В             | -       | T                |
| Methyl Carbitol   | 100                | Α      | A        | Α         | Х          | ı         | Χ               | Α  | ı                | Α       | Α           | Α         | -1            | I             | ı       | T                |
| Methyl Cellosolve   | 100                | Α      | A        | Α         | Х          | I         | Χ               | Α  | А                | Α       | Α           | A         | Α             | В             | Α       | T                |
| Methyl Chloride   |                    |        | NO       | HOSI      | REC        | OMME      | NDED            | FOR TH   | IS APPL          | ICATION |             |           |               |               |         |                  |
| Methyl Cyclohexane  | 100                | Α      | χ        | χ         | Х          | В         | Χ               | В  | Х                | В       | 1           | Α         | - 1           | ı             | 1       | ΤV               |
| Methyl Ethyl Ketone (M.E.K.)  | 100                | Α      | χ        | χ         | Х          | Х         | Χ               | Х  | Χ                | Α       | В           | Α         | Χ             | χ             | Χ       | T                |
| Methyl Hexanol  | 100                | Α      | A        | Α         | В          | Α         | Α               | Α  | Α                | Α       | Α           | Α         | ı             | ı             | -       | TVB              |
| Methyl Hexanone   | 100                | Α      | В        | Х         | Х          | Х         | χ               | Х  | - 1              | Α       | В           | Α         | ı             | ı             | -       | T                |
| Methyl Hexyl Ketone   | 100                | Α      | В        | χ         | Х          | Х         | χ               | Х  | ı                | Α       | В           | Α         | Ι             | ı             | -       | T                |
| Methyl Isobutyl Carbinol  | 100                | Α      | A        | Α         | Α          | В         | Α               | Α  | Α                | Α       | Α           | Α         | В             | ı             | -       | TBN              |
| Methyl Isobutyl Ketone (MIBK)   | 100                | Α      | X        | Х         | Х          | Х         | Χ               | Х  | Χ                | Α       | В           | Α         | Χ             | Χ             | Χ       | T                |
| Methyl Isopropyl Ketone   | 100                | Α      | В        | χ         | Х          | Х         | χ               | В  | В                | Α       | В           | Α         | Α             | I             | - 1     | T                |
| Methyl Normal Amyl Ketone   | 100                | Α      | В        | Χ         | Х          | Х         | χ               | I  | ı                | Α       | В           | Α         | _             | ı             | - 1     | T                |
| Methyl Propyl Carbinol  | 100                | Α      | A        | Α         | Α          | В         | Α               | A  | Α                | Α       | Α           | Α         | -             | ı             | - 1     | TB               |
| Methyl Propyl Ether   | 100                | Α      | Х        | В         | Х          | I         | χ               | I  | χ                | Α       | В           | Α         | ı             | I             | -       | T                |
| Methyl Propyl Ketone  | 100                | Α      | В        | Х         | Х          | X         | χ               | В  | ı                | Α       | В           | Α         | ı             | I             | 1       | T                |
| Methyl Tertiary Butyl Ether   |                    |        |          |           |            |           |                 |  |                  |         |             |           |               |               |         |                  |
| (MTBE) 100% Concentratel  | 100                | χ      | Х        | χ         | Х          | Х         | χ               | Х  | Х                | Α       | В           | ı         | ı             | I             | ı       | I                |
| Methylallyl Acetate   | 100                | Α      | A        | В         | Х          | Х         | χ               | I  | Α                | Α       | Α           | Α         | ı             | ı             | ı       | T                |
| Methylallyl Chloride  | 100                | Α      | Х        | Х         | Х          | Х         | χ               | Х  | 1                | В       | -           | Α         | -             | ı             | - 1     | T                |
| Methyldiethanolamine  | 100                | Α      | Х        | χ         | Х          | Х         | Α               | A  | Х                | Α       | Α           | Α         | ı             | ı             | ı       | ΤB               |
| Methylene Bromide   | 100                | В      | Х        | Χ         | Х          | В         | χ               | I  | Х                | В       | Α           | A         | ı             | ı             |         | ΤV               |
| Methylene Chloride  |                    |        | NO       |           | E REC      | OMME      |                 |  | IS APPL          | ICATION |             |           |               |               |         |                  |
| Metribuzin  | 100                | Α      | 1        | 1         | 1          | I         | 1               | I  | Α                | 1       | l           | Α         | ı             | I             | l       | T                |
| Mineral Spirits   | 100                | Α      | Х        | Х         | Х          | В         | Α               | I  | Χ                | Α       | В           | Α         | Α             | Α             | - 1     | T B              |
| Monochloroacetic Acid   | 100                | Α      | Х        | Х         | В          |           | Χ               | A  | Х                | A       | Α           | Α         | Α             | Χ             | Χ       | T                |
| Monochlorobenzene   | 100                | В      | Х        | χ         | Х          | Α         | χ               | Х  | Х                | В       | В           | Α         | Α             | В             | В       | ΤV               |
| Monochlorodifluoromethane   | 100                | ı      | Х        | Х         | X          | X         | Χ               | I  | I                | I       | -           | Α         | Α             | ı             | 1       | TN               |
| Monoethanol Amine   | 100                | Α      | Α        | Х         | В          |           | В               | A  | В                | A       | В           | Α         | Α             | В             |         | TN               |
| Monoethyl Amine   |                    |        |          |           |            | OMME      |                 |  | IS APPL          |         |             |           |               |               |         |                  |
| Monoisopropanol Amine   | 100                | Α      | Α        | X         | В          |           | В               | I  | I                | A       | В           | Α         | I             | I             | -       | T B              |
| Muriatic Acid   | 125                | A      | Х        | Χ         | A          |           | χ               | Α  | Х                | Α       | Α           | А         | Χ             | Χ             | χ       | T                |



#### CHEMICAL CHARTS

This chemical chart is offered as a guide only. There are many variables to be considered with each application. Ratings are for tube polymer only! For explanation of ratings see the initial page of these Chemical Charts in Appendix B. Contact customer services for chemicals or polymers not listed at 800-235-4632.

| of facings see the initial page of these chemical            | GOODYEAR ENGINEERED PRODUCTS |         |           |           |           |              |                 |                 |                        |  |           |  |                             |               |          | $\succeq$     |
|--|------------------------------|---------|-----------|-----------|-----------|--------------|-----------------|-----------------|------------------------|--|-----------|--|-----------------------------|---------------|----------|---------------|
| RATING SCALE  A = May be used for                            |                              |         |           |           | GOOI      | DYE          |                 | NGINEE<br>MICAL |                        |  | CTS       |  |                             |               | FIT      | TING          |
| Continuous Service   |                              |         |           | 7         |           | 7            | 7               |                 |                        |  | /         | 7                                      | 7                           | 7             |          |               |
| <b>B</b> = May be used for                                   |                              |         |           |           | /         |              | /               | Brown Flexwing  | UMI /                  | Jale /                                   |           | Viper                                  | . /                         | /             |          |               |
| Intermittent Service   |                              | /       | Gray Flo. | Vellow EL | [gg]      | ` <b>.</b> / | Flexwing        | ing / strole    |                        |  | 20/       | \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | / /                         | <u> </u>      | / ,      | / /           |
| I = Insufficient data, contact<br>customer services          |                              | Fabcham |           |           | Tan Flow. |              | . \ <u>`</u>    |                 |                        |  | exwi.     | HI-PED® W                              | Insta (                     | Install       | Insta (  | Insta-Lock    |
| $\mathbf{X} = \text{Do not use}$                             |                              | pcho    | A FI      | Mol       | 1/1/      |              | exwi            |                 |                        | ) (19) (19) (19) (19) (19) (19) (19) (19 |           | HI-PED®                                | $\frac{1}{2} / \frac{1}{2}$ | $\frac{1}{2}$ | 7/5      | 7-p;          |
| GASKET   | (F)                          |         | / 3       |           | 1/2       | / &          | / <del>**</del> | Brown Flerwing  | Purple Flexwing Extrem | Green XIPE                               | <b>3</b>  | /☀                                     | / 🖺                         | / <u>#</u>    | <b>I</b> | / <b>\(\)</b> |
| <b>T</b> = Teflon® <b>V</b> = Viton®                         | <u>e</u>                     | UHMWPE  | ~         | Hypalon®  |           | Viton∞       | Nitrile         |                 |                        |  | Alphasyn" | Teflon∞                                | 316 SS                      | Aluminum      | SS       | Gasket        |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$ | Temperature                  | H       | Butyl     | Ŧ         | ĸ         |              | E E             | 띪               | EPDM                   | XLPE                                     | ₽         | Ţ <u>e</u>                             | 316                         | ₽             | Brass    | Gas           |
| <b>S</b> = Silicone  | ad mis                       |         |           |           |           | HOS          | F TII           | BE POL          | YMFR                   |  |           |  |                             | М             | ETAI     |               |
| N  | · ·                          |         |           |           |           | 1100         | ,               | DL 1 0L         |                        |  |           |  |                             |               |          |               |
| N/Methylpyrrolidone  | 100                          | Α       | X         | χ         | Χ         | χ            | Χ               | χ               | Х                      | Α  | ı         | Α                                      | 1                           | ı             | ı        | T             |
| Naphtha  | 100                          | Α       | X         | X         | X         | A            | Α               | Α               | Х                      | Α  | Α         | Α                                      | Α                           | Α             | ı        | TVBN          |
| Naphthalene  | 100                          | Α       | X         | X         | Χ         | А            | X               | I               | Χ                      | Α  | -         | Α                                      | Α                           | В             | -        | TV            |
| Natural Gas  |                              |         |           | HOSE      | REC       | OMME         | NDED            | FOR TH          | IS APPL                | ICATION                                  |           |  |                             |               |          |               |
| Neohexane  | 100                          | Α       | X         | Х         | Χ         | Α            | A               | В               | Х                      | Α  | В         | Α                                      | Α                           | Α             | ı        | TVB           |
| Neu-Tri  | 100                          | Α       | Χ         | X         | X         | Α            | Х               | ı               | Х                      | Α  | В         | Α                                      | ı                           | ı             | ı        | TV            |
| Nickel Chloride  | 150                          | Α       | Α         | Α         | Α         | Α            | A               | Α               | Α                      | Α  | Α         | Α                                      | В                           | Х             | Χ        | TVBS          |
| Nickel Nitrate   | 150                          | Α       | Α         | Α         | Α         | Α            | A               | А               | Α                      | Α  | Α         | Α                                      | В                           | X             | X        | TVBN          |
| Nickel Sulfate   | 150                          | Α       | Α         | Α         | Α         | Α            | Α               | Α               | Α                      | Α  | Α         | Α                                      | Α                           | Х             | Х        | TVBNS         |
| Nitric Acid 25%  | 100                          | В       | В         | χ         | χ         | χ            | Χ               | χ               | Х                      | В  | Α         | Α                                      | Α                           | Х             | Χ        | TV            |
| Nitric Acid 37%  | 100                          | χ       | Χ         | X         | Χ         | Χ            | Χ               | Χ               | Х                      | Х  | Α         | Α                                      | Α                           | Х             | Х        | TV            |
| Nitric Acid 40%-60%  | 100                          | Χ       | Χ         | Χ         | χ         | Χ            | Χ               | χ               | Х                      | Х  | В         | Α                                      | Α                           | Х             | Х        | TV            |
| Nitric Acid 70%  | 100                          | Χ       | Χ         | χ         | χ         | χ            | Χ               | χ               | Х                      | Х  | В         | Α                                      | В                           | Х             | Χ        | T             |
| Nitro Benzene  | 100                          | Α       | Χ         | X         | Χ         | В            | Χ               | χ               | Х                      | Α  | В         | Α                                      | Α                           | В             | Χ        | T             |
| Nitrogen Gas   | 100                          | Α       | Α         | Α         | Α         | Α            | A               | Α               | Α                      | Α  | Α         | Α                                      | Α                           | ı             | 1        | TVBNS         |
| Nitrous Oxide  | 100                          | Α       | Α         | Α         | Α         | Α            | Α               | Α               | Α                      | Α  | Α         | Α                                      | Α                           | I             | Χ        | TVBNS         |
| Nonenes  | 100                          | Α       | X         | χ         | χ         | Α            | Α               | I               | X                      | Α  | В         | Α                                      | - 1                         | I             | -        | V B           |
| 0  |                              |         |           |           |           |              |                 |                 |                        |  |           |  |                             |               |          |               |
| Octadecanoic Acid  | 100                          | Α       | В         | χ         | Χ         | I            | Α               | Α               | В                      | Α  | Α         | Α                                      | Α                           | В             | Α        | TB            |
| Octane   | 100                          | В       | Χ         | χ         | Χ         | Α            | Α               | Α               | Χ                      | В  | В         | Α                                      | В                           | I             | В        | TVB           |
| Octanol  | 100                          | Α       | Α         | Α         | Α         | В            | Α               | Α               | Χ                      | Α  | Α         | Α                                      | Α                           | ı             | 1        | TBN           |
| Octyl Acetate  | 100                          | Α       | Α         | Α         | χ         | Χ            | Χ               | χ               | - 1                    | Α  | В         | Α                                      | ı                           | ı             | 1        | T             |
| Octyl Alcohol  | 100                          | Α       | Α         | Α         | Α         | В            | Α               | Α               | Χ                      | Α  | Α         | Α                                      | Α                           | ı             | -1       | ТВ            |
| Octyl Aldehyde   | 100                          | Α       | Χ         | Χ         | Χ         | Χ            | Χ               | ı               | ı                      | Α  | 1         | Α                                      | ı                           | ı             | 1        | T             |
| Octyl Amine  | 100                          | Α       | В         | χ         | Χ         | Χ            | Χ               | В               | ı                      | Α  | В         | Α                                      | ı                           | ı             | 1        | T             |
| Octyl Carbinol   | 100                          | Α       | Α         | Α         | Α         | В            | Α               | Α               | А                      | Α  | Α         | Α                                      | I                           | 1             | - 1      | TB            |
| Octylene Glycol  | 100                          | Α       | Α         | Α         | Α         | Α            | Α               | Α               | Α                      | Α  | Α         | Α                                      | - 1                         | 1             | -1       | TVB           |
| Oil Petroleum  | 100                          | В       | χ         | χ         | χ         | Α            | Α               | Α               | Χ                      | Α  | В         | Α                                      | Α                           | Α             | Χ        | TVB           |
| Oleic Acid   | 100                          | Α       | В         | χ         | χ         | I            | В               | Α               | Χ                      | Α  | В         | Α                                      | Α                           | В             | Χ        | TB            |
| Oleum  | 100                          | χ       | χ         | χ         | χ         | Χ            | Χ               | χ               | Χ                      | Χ  | Χ         | Α                                      | I                           | Х             | Χ        | TV            |
| Organic Fatty Acids  | 100                          | Α       | Χ         | χ         | χ         | Χ            | Α               | Α               | Х                      | Α  | В         | Α                                      | Α                           | 1             | 1        | TB            |
| Orthodichlorobenzene   | 100                          | Α       | χ         | χ         | χ         | Α            | χ               | I               | χ                      | А  | В         | Α                                      | I                           | ı             | -1       | TV            |

AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS





AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

APPENDIX

#### CHEMICAL CHARTS

| of ratings see the initial page of these Chemical  | Charts      | in Appe | ndix B.  | Contact   | custom      | er servi  | ces for | chemicals (    | or polymers | not listed a | at 800-   | 235-4            | 632.     |          |       | \          |
|--|-------------|---------|----------|-----------|-------------|-----------|---------|----------------|-------------|--------------|-----------|------------------|----------|----------|-------|------------|
| RATING SCALE   |             |         |          |           | G00         | DYE       |         |                | ERED F      |              | CTS       | ;                |          |          | FIT   | TING       |
| <ul> <li>A = May be used for Continuous Service</li> <li>B = May be used for Intermittent Service</li> <li>I = Insufficient data, contact customer services</li> <li>X = Do not use</li> </ul> |             | Fabcho  | Gray Fy. | Vellow E. | Tan Floring | Orange F. | 7       | Brown Flexwing | ,           |              | Chem S    | HI-PED® & Viper" | Insta. I | Instal   | Insta | Insta-Lock |
| T = Teflon® V = Viton®   | (F) e       |         |          |           |             |           |         |                |             |              | Alphasyn" |                  |          | Aluminum |       |            |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$   | atur        | UHMWPE  | Butyl    | Hypalon®  | ¥           | Viton®    | Nitrile | 핆              | EPDM        | XLPE         | Alpha     | Teflon®          | 316 SS   | A I      | Brass | Gasket     |
| <b>S</b> = Silicone  | Temperature |         |          |           |             | HOS       | E TU    | IBE POI        | YMER        |              |           |                  |          | М        | ETAI  |            |
| O with a diable was a world  | ·           | Δ.      | V        | v         | V           | ۸         | V       |                | V           | Λ            |           | Δ.               |          | 1        |       | TV         |
| Orthodichlorobenzol  | 100         | A<br>B  | X        | X         | X           | A         | X       |                | X           | A            | l<br>D    | A                | 1        | 1        | 1     | TV         |
| Orthoxylene Oxalic Acid  | 100         | A       | A        | X         | Х           | A         | X       | A              | X<br>B      | A            | B<br>B    | A                | A        | В        | Х     | TV         |
| Oxygen   | 100         | A       |          |           |             | OMME      |         |                | IS APPL     | I CATION     | D         | A                | A        | D        | Λ.    | 13         |
| Ozone  | 100         | A       | В        | В         | X           | I         | X       | A              | A           |              | В         | Α                | ı        |          | ı     | TS         |
| P  | 100         |         | D        |           | Λ           | •         | Λ       |                | Λ           |              | <u> </u>  | - 11             | '        | '        | •     |            |
| Palmitic Acid  | 100         | Α       | Α        | В         | Χ           | ı         | Α       | Α              | В           | В            | В         | Α                | Α        | ı        | Χ     | TBS        |
| Papermakers Alum   | 150         | Α       | Α        | Α         | Α           | Α         | Α       | А              | Α           | Α            | Α         | Α                | ı        | ı        | 1     | TVBN       |
| Paradichlorobenzol   | 100         | В       | χ        | Х         | Χ           | Α         | Χ       | ı              | Χ           | Α            | ı         | Α                | ı        | ı        | ı     | ΤV         |
| Paraffin   | 150         | Α       | В        | Х         | Χ           | Α         | Α       | Α              | χ           | Χ            | 1         | Α                | Α        | Α        | Α     | TVB        |
| Paraldehyde  | 100         | Α       | В        | Х         | Χ           | Χ         | Χ       | ı              | В           | Α            | В         | Α                | Α        | Α        | 1     | T          |
| Paraxylene   | 100         | Α       | Χ        | Х         | Χ           | Α         | χ       | I              | χ           | Α            | В         | Α                | -        | I        | I     | ΤV         |
| Pelargonic Acid  | 100         | Α       | Α        | Х         | Χ           |           | Α       | I              | ı           | Α            | 1         | Α                | -        | ı        | ı     | T B        |
| Pentachloroethane  | 100         | A       | Χ        | Х         | Χ           | Α         | χ       | I              | Χ           | Α            | 1         | Α                | Α        | В        | Χ     | ΤV         |
| Pentane  |             |         | NO       | HOSI      | E REC       | OMME      | NDED    | FOR TH         | IS APPL     | ICATION      |           |                  |          |          |       |            |
| Pentanol   | 100         | A       | Α        | A         | Α           | В         | Α       | A              | Α           | Α            | Α         | Α                | -        | 1        | 1     | TBN        |
| Pentanone  | 100         | Α       | В        | Х         | Χ           | Χ         | Χ       | В              | ı           | Α            | В         | Α                | 1        | ı        | ı     | T          |
| Perchloroethylene  | 100         | В       | Χ        | Х         | Χ           | Α         | Χ       | Х              | Χ           | Α            | В         | Α                | Α        | В        | Χ     | TV         |
| Petroleum Ether (Ligroin)  | 100         | Α       | Χ        | Х         | Χ           | Α         | A       | A              | Χ           | Α            | В         | Α                | Α        | Α        | 1     | TVB        |
| Petroleum - Crude  | 100         | A       | Χ        | Х         | Χ           | Α         | Α       | A              | Χ           | Α            | В         | Α                | Α        | Α        | Χ     | TVB        |
| Petroleum Oils   | 100         | A       | X        | Х         | Х           | Α         | Α       | A              | Χ           | Α            | В         | Α                | Α        | Α        | X     | TVB        |
| Phenol   | 125         | Α       | Α        | Х         | Χ           | Α         | Χ       | A              | Χ           | Α            | В         | Α                | Α        | В        | В     | TV         |
| Phenolsulfonic Acid  | 100         | Х       | Χ        | Х         | Χ           | Χ         | χ       | A              | - 1         | В            | В         | Α                | В        | I        | ı     | T          |
| Phenyl Chloride  | 100         | A       | Х        | Х         | Х           | Α         | Χ       | Х              | Χ           | Α            | В         | Α                | Α        | В        | 1     | TV         |
| Phosphoric Acid 10%  | 150         | A       | Α        | A         | Α           | Χ         | Α       | A              | Α           | Α            | Α         | Α                | Α        | Х        | Х     | TVBN       |
| Phosphoric Acid 10-85%   | 100         | A       | Α        | Α         | В           | Χ         | Χ       | A              | Α           | Α            | Α         | Α                | Α        | Х        | 1     | TVN        |
| Pine Oil   | 100         | A       | X        | Х         | Х           | Α         | X       | В              | Х           | Α            | В         | Α                | A        | 1        | X     | TV         |
| Pinene   | 100         | A       | Х        | X         | Х           | A         | В       | В              | Χ           | A            | В         | A                | В        | <br>     |       | TV         |
| Polyethylene Glycol  | 150         | A       | A        | A         | Α           | Α         | A       | A              | A           | A            | Α         | Α                |          |          | 1     | TVBN       |
| Polypropylene Glycol   | 150         | A       | A        | A         | A           | A         | A       | A              | A           | A            | A         | Α                | ı        | l<br>V   | I     | TVB        |
| Potassium Acetate  | 100         | A       | A        | В         | X           | X         | X       | A              | В           | A            | A         | A                | A        | X        | X     | TB         |
| Potassium Bisulfate  | 150         | A       | A        | A         | A           | Α         | A       | A              | A           | A            | Α         | Α                | A        | <u> </u> | X     | TVBN       |
| Potassium Bisulfite  | 150         | A       | A        | A         | A           | Α         | Α       | A              | A           | Α            | Α         | Α                |          | I        |       | TVBN       |



#### CHEMICAL CHARTS

This chemical chart is offered as a guide only. There are many variables to be considered with each application. Ratings are for tube polymer only! For explanation of ratings see the initial page of these Chemical Charts in Appendix B. Contact customer services for chemicals or polymers not listed at 800-235-4632.

| RATING SCALE  | 1                  |        |          |           | GOOI           | DYE#           | AR E           | NGINE                  | ERED F          | PRODU      | ICTS      | :         |               |            |             |               |
|---|--------------------|--------|----------|-----------|----------------|----------------|----------------|------------------------|-----------------|------------|-----------|-----------|---------------|------------|-------------|---------------|
| $\mathbf{A} = \mathbf{May}$ be used for                                 |                    |        |          |           | u00.           | J,             |                |                        | L HOSE          |            |           |           |               |            |             | TING          |
| Continuous Service  |                    |        |          | 7         | $\overline{T}$ | 7              | $\overline{T}$ | / /                    |                 | /          | /         | /*        | $\overline{}$ | 7          |             | $\overline{}$ |
| <b>B</b> = May be used for Intermittent Service                         |                    |        | / ,      | /,        | /_ ,           | / ,            | / <b>b</b> o / | Brown Flexwing Extreme | Purple Flexwing | urple      |           | Viper 74  | ./            | /          |             | / /           |
| I = Insufficient data, contact  |                    |        | Gray FL. | Vellow EL | Tan Flore      | <b>&amp;</b> / | Flexwing       | etro,<br>rwijo         |                 | Green XIPE | .ju       | HI-PED® W | /             | <i>į</i> / | ′. /        | · /           |
| customer services   |                    | Fabcha | [     d  |           |                |                |                |                        |                 |            |           | <u> </u>  | lista i       | Insta (    | North House | Insta-Lock    |
| <b>X</b> = Do not use   |                    | /apc/  | "Fay     | (ello)    | lan E          | Jan            | $F_{lex_0}$    | Stown Street           |                 | eree/      |           | HI-PED®   | 1/1843        | 154        | 1843        | Insta         |
| GASKET  | Æ                  | l      |          |           | ,              | _              | /              | 77                     | 7 7             | ,          | <b>1</b>  |           |               |            |             |               |
| T = Teflon® V = Viton®  | nre                | UHMWPE | Butyl    | Hypalon⊗  |                | Viton®         | Nitrile        | w.                     | EPDM            | XLPE       | Alphasyn" | Teflon®   | 316 SS        | Aluminum   | Brass       | Gasket        |
| <ul><li>B = Nitrile</li><li>S = Silicone</li><li>N = Neoprene</li></ul> | erat               | ≐      | 쥰        | £         | ¥              | Ξ              | Ž              | CPE                    | <b>a</b>        | 봊          | ₹         | je        | 31            | Ā          | 찙           | eg<br>eg      |
| P   | <b>Femperature</b> |        |          |           |                | HOS            | E TU           | BE POI                 | YMER            |            |           |           |               | M          | ETAI        |               |
| Potassium Carbonate   | 150                | Λ      | Λ        | Λ         | Λ              | Λ              | ۸              | ۸                      | Λ               | ۸          | Δ.        |           | ٨             | v          | χ           | TVBN S        |
| Potassium Carbonate  Potassium Chloride                                 | 150                | A<br>A | A        | A<br>A    | A<br>A         | A<br>A         | A              | A<br>A                 | A<br>A          | A<br>A     | A         | A         | A             | X          | Х           | TVBNS         |
| Potassium Chromate  | 150                | В      | A        | Х         | ı              | I              | ı              | A                      | ı               | В          | В         | A         | В             | 1          | 1           | TVBN          |
| Potassium Dichromate  | 150                | В      | A        | χ         | <u>'</u>       | <u> </u>       | 1              | A                      | 1               | В          | В         | A         | A             | В          | Х           | TVBNS         |
| Potassium Hydrate   | 150                | A      | A        | В         | A              | Х              | В              | A                      | В               | A          | A         | A         | A             | Х          | 1           | TS            |
| Potassium Hydroxide   | 150                | В      | A        | В         | A              | χ              | В              | A                      | В               | A          | Α         | Α         | A             | Х          | Х           | TN            |
| Potassium Nitrate   | 150                | Α      | Α        | A         | Α              | Α              | A              | A                      | A               | A          | Α         | Α         | A             | В          | Α           | TVBNS         |
| Potassium Permanganate  | 100                | Α      | Α        | Α         | Α              | Α              | В              | I                      | ı               | Α          | Α         | Α         | Α             | ı          | ı           | TVS           |
| Potassium Silicate  | 150                | Α      | Α        | Α         | Α              | Α              | Α              | Α                      | Α               | Α          | Α         | Α         | Α             | ı          | ı           | TVBNS         |
| Potassium Sulfate   | 150                | Α      | Α        | Α         | Α              | Α              | Α              | Α                      | Α               | Α          | Α         | Α         | Α             | В          | Α           | TVBNS         |
| Potassium Sulfide   | 150                | Α      | Α        | Α         | Α              | Α              | Α              | Α                      | Α               | Α          | Α         | Α         | Α             | Χ          | Χ           | TVBNS         |
| Potassium Sulfite   | 150                | Α      | А        | А         | А              | Α              | А              | Α                      | Α               | Α          | Α         | Α         | Α             | 1          | Χ           | TVBNS         |
| Propanediol   | 100                | Α      | Α        | Α         | Α              | Α              | Α              | Α                      | Α               | Α          | Α         | Α         | 1             | 1          | 1           | TVBS          |
| Propane Gas   |                    | χ      | χ        | χ         | χ              | χ              | Χ              | Χ                      | Χ               | Χ          | Χ         | Χ         | Х             | Χ          | Χ           |               |
| Propanol  | 100                | Α      | Α        | Α         | Α              | В              | Α              | Α                      | Α               | Α          | Α         | Α         | Α             | 1          | ı           | TVB           |
| Propyl Acetate  | 100                | Α      | Α        | В         | Χ              | Χ              | Χ              | В                      | Χ               | Α          | В         | Α         | Α             | 1          | 1           | T             |
| Propyl Alcohol  | 100                | Α      | Α        | Α         | Α              | В              | A              | Α                      | Α               | Α          | Α         | Α         | А             | ı          | ı           | TB            |
| Propyl Aldehyde   | 100                | Α      | В        | Х         | X              | Χ              | X              | Х                      |                 | Α          | В         | Α         | I             | ı          |             | T             |
| Propyl Chloride   |                    |        |          |           |                | OMME           |                |                        | IS APPL         |            |           |           | Ι.            |            |             |               |
| Propylene Diamine   | 100                | A      | A        | X         | В              |                | В              | A                      | l<br>v          | A          | !         | Α         |               | l<br>V     |             | TB            |
| Propylene Dichloride  | 100                | В      | X        | Х         | Х              | В              | X              | X                      | X               | В          | 1         | Α         | A             | X          |             | TVDO          |
| Propylene Glycol  | 100                | A      | A        | A         | A              | A              | A              | A                      | A               | A          | A         | A         | A             | <u> </u>   | <u> </u>    | TVBS          |
| Propylene Tetramer  | 100                | Α      | Χ        | Х         | Х              | Χ              | Α              | Α                      | Х               | Α          | В         | ı         | l             | l I        |             | В             |
| S   | 100                | Α.     | ۸        | Δ.        | Δ              | ۸              | ۸              |                        | Δ.              | Δ.         | ۸         |           | ١,            |            | V           | TVDNO         |
| Sea Water   | 100                | A      | A        | A         | A              | A              | A              | A                      | A               | A          | Α         | A         | A             | l<br>v     | X           | TVBNS         |
| Sewage<br>Silicate of Sada  | 100                | A      | X        | Α         | X              | 1              | Α              | A                      | A               | A          | Α         | A         | A             | X          | l           | TURNS         |
| Silicate of Soda Soap   | 100                | A      | X        | A<br>X    | A<br>X         | A<br>X         | A<br>A         | A<br>A                 | A<br>X          | A<br>X     | A         | A         | A             | X          | X           | TVBNS<br>TBNS |
| Soda Ash  | 100                | A      | A        | A         | A              | A              | A              | A                      | A               | A          | A         | A         | A             | χ          | 1           | TVBNS         |
| Soda, Caustic   | 100                | A      | A        | В         | A              | Х              | В              | A                      | A               | A          | A         | A         | A             | χ          | Х           | TNS           |
| Soda, Lime  | 100                | A      | A        | В         | A              | Х              | В              | A                      | A               | A          | A         | A         | 1             | 1          | 1           | TVB           |
| Soda, Niter   | 100                | A      | A        | A         | A              | A              | A              | A                      | В               | A          | A         | A         | À             | В          | Ė           | TVB           |
| Sodium Acetate  | 100                | A      | A        | A         | Х              | X              | Х              | A                      | В               | В          | В         | A         | A             | Ī          | A           | TNS           |
|   |                    |        |          |           |                |                |                |                        |                 |            |           |           |               |            |             |               |



AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

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APPENDIX

#### CHEMICAL CHARTS

|  |             |         |       |                   |                |        |               |                          |                          |            |           |                            |                    |          |            | $\succeq$      |
|--|-------------|---------|-------|-------------------|----------------|--------|---------------|--------------------------|--------------------------|------------|-----------|----------------------------|--------------------|----------|------------|----------------|
| RATING SCALE   |             |         |       |                   | GOOI           | DYE    |               |                          | ERED P<br>L Hose         |            | CTS       | •                          |                    |          | FIT        | TING           |
| A = May be used for<br>Continuous Service                    |             |         | _     |                   | 7              |        | 7             |                          |                          |            | /         |                            |                    | _        |            |                |
| $\mathbf{B} = \mathbf{May}$ be used for                      |             |         | /     |                   | /              |        | /             | / 📕 /                    | <u>u</u>                 | 9/0        |           | Viper"                     | . /                |          |            |                |
| Intermittent Service   |             | /       | ' /   | / <sub>@</sub> _/ | . <u>e</u> e / | /      | . <b>[8</b> ] | , to let                 | £ \ 6.                   | القي و     | ر مو      |                            | / ,                | /        | / ,        | / /            |
| I = Insufficient data, contact customer services             |             | /       | Ĺ/.   |                   |                |        | , exw         |                          |                          | [PE   184] | XM!I      | <i>B B B B B B B B B B</i> | $\cdot$ /          | <u>*</u> | <b>☆</b> / | Insta-Lock     |
| $\mathbf{X} = \mathbf{Do} \text{ not use}$                   |             | Chair   |       |                   |                |        | XWii          |                          |                          |            |           |                            | - \ <del>-</del> - | 7 / 70   | 07/5       | 14/10<br>14/10 |
| GASKET   |             | Fabchar | Gra   | Vellow EL         | Tan Flam       | 0/9    | Flexwing      | Brown Flexwing Extremos: | Purple Flavning Extremes | Green XIPE | 196       | HI-PED® W                  | lista              | Insta ,  | Hoozer 1   | SIL            |
| T = Teflon® V = Viton®                                       | (F)         | VPE     |       |                   |                |        |               |                          |                          |            | syn."     | ı                          |                    |          |            |                |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$ | aţ          | UHMWPE  | Butyl | Hypalon⊗          | N.             | Viton® | Nitrile       | 봀                        | EPDM                     | XLPE       | Alphasyn" | Teflon®                    | 316 SS             | Aluminum | Brass      | Gasket         |
| <b>S</b> = Silicone  | Temperature |         |       |                   |                |        |               |                          |                          |            |           | -                          |                    |          |            |                |
| S  | <u>T</u> e  |         |       |                   |                | HOS    | E TU          | BE POL                   | YMER.                    |            |           |                            |                    | M        | ETA        |                |
| Sodium Aluminate   | 100         | Α       | Α     | Α                 | Α              | Α      | Α             | А                        | Α                        | Α          | Α         | Α                          | Α                  | I        | - 1        | TVBN           |
| Sodium Bisulfate   | 150         | Α       | Α     | Α                 | Α              | Α      | Α             | Α                        | Α                        | Α          | Α         | Α                          | Α                  | Χ        | Χ          | TVBNS          |
| Sodium Bisulfite   | 150         | Α       | Α     | Α                 | Α              | Α      | Α             | Α                        | Α                        | Α          | Α         | Α                          | Α                  | Χ        | Χ          | TVBNS          |
| Sodium Carbonate   | 150         | Α       | Α     | Α                 | Α              | Α      | Α             | Α                        | Α                        | Α          | Α         | Α                          | Α                  | Х        | - 1        | TVBNS          |
| Sodium Chloride (Brine)                                      | 150         | Α       | Α     | Α                 | А              | А      | Α             | Α                        | Α                        | Α          | Α         | Α                          | Α                  | Х        | 1          | TVBNS          |
| Sodium Chromate  | 150         | Χ       | Α     | Χ                 | -              | -1     | -             | Α                        | - 1                      | Χ          | 1         | Α                          | Α                  | Α        | Α          | TVBN           |
| Sodium Dichromate  | 150         | Α       | Α     | χ                 | -              | ı      | -             | Α                        | Α                        | Α          | Α         | Α                          | Α                  | ı        | Χ          | T              |
| Sodium Hydrate   | 150         | Α       | Α     | В                 | Α              | χ      | В             | Α                        | Α                        | Α          | Α         | Α                          | В                  | Х        | Χ          | TN             |
| Sodium Hydrosulfide  | 100         | Α       | Χ     | Χ                 | χ              | χ      | Α             | Α                        | Χ                        | Α          | 1         | Α                          | 1                  | В        | 1          | ТВ             |
| Sodium Hydroxide (50%)                                       | 150         | Α       | Α     | В                 | Α              | χ      | В             | Α                        | Α                        | Α          | Α         | Α                          | Α                  | Х        | Χ          | TBN            |
| Sodium Hypochlorite  | 100         | В       | В     | χ                 | χ              | В      | χ             | Α                        | Α                        | Χ          | В         | Α                          | Χ                  | Х        | Χ          | TVS            |
| Sodium Nitrate   | 150         | Α       | Α     | Α                 | Α              | Α      | Α             | Α                        | В                        | Α          | Α         | Α                          | Α                  | В        | ı          | TVBNS          |
| Sodium Silicate  | 150         | Α       | Α     | Α                 | Α              | Α      | Α             | Α                        | Α                        | Α          | Α         | Α                          | Α                  | Х        | Χ          | TVBNS          |
| Sodium Sulfate   | 150         | Α       | Α     | Α                 | Α              | Α      | Α             | Α                        | Α                        | Α          | Α         | Α                          | Α                  | В        | Х          | TVBNS          |
| Sodium Sulfide   | 150         | Α       | Α     | Α                 | Α              | Α      | Α             | Α                        | Α                        | Α          | Α         | Α                          | Α                  | Х        | Х          | TVBN           |
| Sodium Sulfite   | 150         | Α       | Α     | Α                 | Α              | Α      | Α             | Α                        | В                        | Α          | Α         | Α                          | Α                  | ı        | 1          | TVBNS          |
| Sodium Sulphydrate   | 100         | Α       | χ     | Χ                 | χ              | Χ      | Α             | Α                        | X                        | Α          | В         | Α                          | 1                  | 1        | 1          | T B            |
| Sodium Thiosulfate   | 150         | Α       | Α     | Α                 | Α              | Α      | Α             | Α                        | Α                        | Α          | Α         | Α                          | Α                  | 1        | Х          | TVBNS          |
| Stannic Chloride   | 150         | Α       | Α     | Α                 | Α              | ı      | Α             | Α                        | Α                        | Α          | Α         | Α                          | Х                  | Х        | Χ          | TB             |
| Stannic Sulfide  | 150         | Α       | Α     | Α                 | Α              | ı      | Α             | Α                        | Α                        | Α          | Α         | Α                          | -                  | I        | ı          | TBN            |
| Stannous Chloride  | 150         | Α       | Α     | Α                 | Α              | ı      | Α             | Α                        | В                        | Α          | Α         | Α                          | Α                  | Х        | Х          | TB             |
| Stannous Sulfide   | 150         | Α       | Α     | Α                 | Α              | ı      | Α             | Α                        | Α                        | Α          | Α         | Α                          | -                  | ļ        | ı          | TB             |
| Stearic Acid   | 100         | Α       | В     | Х                 | Х              | ı      | Α             | Α                        | В                        | Α          | Α         | Α                          | Α                  | В        | Α          | TVB            |
| Stoddard Solvent   | 100         | Α       | χ     | Х                 | χ              | Α      | Α             | Α                        | Χ                        | Α          | В         | Α                          | Α                  | Α        | 1          | TVB            |
| Styrene  | 100         | В       | χ     | χ                 | χ              | Α      | Χ             | χ                        | Χ                        | Χ          | ı         | Α                          | Α                  | I        | ı          | TV             |
| Sulfamic Acid (>10%)   | 100         | χ       | Α     | В                 | В              | ı      | В             | Α                        | I                        | I          | ı         | Α                          | - 1                | ı        | 1          | TVN            |
| Sulfonic Acid  | 100         | В       | χ     | Х                 | χ              | Х      | Х             | ı                        | ı                        | В          | ı         | Α                          | 1                  | 1        | 1          | TVN            |
| Sulfur Dioxide (Liquid)                                      | 100         | В       | В     | В                 |                | χ      | ı             | I                        | 1                        | Х          | ı         | Α                          | Α                  | ı        | ı          | TN             |
| Sulfuric Acid 25%  | 150         | Α       | Α     | В                 | В              | ı      | Х             | Α                        | Α                        | Α          | Α         | Α                          | ı                  | Х        | Χ          | TVN            |
| Sulfuric Acid 93%  | 100         | Х       | X     | В                 | X              | В      | Х             | Χ                        | В                        | A          | Α         | Α                          |                    | Х        | Х          | TV             |
| Sulfuric Acid 93-98%   | 100         | χ       | χ     | χ                 | χ              | В      | Χ             | χ                        | Χ                        | I          | В         | Α                          | ı                  | Х        | Χ          | TV             |
| Sulfuric Acid Fuming   | 100         | Х       | χ     | χ                 | χ              | Х      | X             | Х                        | Χ                        | Х          | Х         | Α                          |                    | Х        | Χ          | T              |



# CHEMICAL CHARTS

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| of faciligs see the initial page of these chemica            | l Gilarto   | птрро   | ildix D. |           |                |        |          |                |   |              |             |              |                  |          |            | $\succeq$   |
|--|-------------|---------|----------|-----------|----------------|--------|----------|----------------|---|--------------|-------------|--------------|------------------|----------|------------|-------------|
| RATING SCALE   |             |         |          |           | GOOI           | DYE,   |          |                | ERED F<br>L Hose                        |              | CTS         | i            |                  |          | FIT        | TING        |
| A = May be used for<br>Continuous Service                    |             |         | _        |           | 7              |        |          |                |   |              | /           |              |                  | _        |            | <del></del> |
| <b>B</b> = May be used for                                   |             |         |          |           |                |        |          | Brown Flexwing | Purple Flexwing Extreme                 | 9/0          |             | 1. 16        | . /              |          |            |             |
| Intermittent Service   |             | /       | /        | Vellow E. | . <u>e</u> e / | / /    | Flexwing | , oleu         | يَّةِ. \ فَعَرِ هُ<br>يَانِ \ فَعَرِ هُ | Green XIPE   | Òn.         | 'Viper"      | / ,              | /        | / ,        | / /         |
| I = Insufficient data, contact<br>customer services          |             | /       | [ /      | Vellow EL | Tan Flor       |        | , exw    |                |   | [PE   184]   | Chem C      | <i>a b d</i> | Insta 1          | <u>*</u> | <b>☆</b> / | Insta-Lock  |
| $\mathbf{X} = \mathbf{Do} \text{ not use}$                   |             | Choir   |          |           |                | 100    |          |                |   |              |             |              | , \ <del>,</del> | 0,70     | 07/2       | ta-[,       |
| GASKET   |             | Fabchar | Gra      | /@/       | lan            | 0/3    | Fle      | Ext            | EXT                                     | ere          | 7/3<br>8/15 | HI-PERS      | 184              | Mate (   | Insta ,    |             |
| T = Teflon® V = Viton®                                       | Ε           |         |          |           |                |        |          |                |   |              | Alphasyn™   |              |                  | ıum      |            |             |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$ | it i        | UHMWPE  | Butyl    | Hypalon⊗  | æ              | Viton® | Nitrile  | CPE            | EPDM                                    | XLPE         | Ipha        | Teflon®      | 316 SS           | Aluminum | Brass      | Gasket      |
| <b>S</b> = Silicone  | Temperature |         |          | _         |                |        |          |                |   | $\widehat{}$ | _           |              | (.,              |          |            |             |
| S  | <u></u>     |         |          |           |                | HOS    | E TU     | BE POL         | YMER                                    |              |             |              |                  | V        | ΕTΑ        |             |
| Sulfurous Acid 10%   | 150         | Α       | Α        | Α         | Α              | Т      | χ        | Α              | Α                                       | A            | Α           | Α            |                  | χ        | χ          | T           |
| Sulfurous Acid 10-75%  | 100         | Α       | Α        | Α         | Α              | ı      | χ        | Α              | Α                                       | Α            | Α           | Α            | Т                | Χ        | Х          | T           |
| Sulphonate   | 100         | ı       | χ        | Х         | Χ              | χ      | Α        | Α              | Χ                                       | χ            | 1           | ı            | T                | Ι        | 1          | В           |
| T  |             |         |          |           |                |        |          |                | •                                       |              |             |              |                  |          |            |             |
| Tall Oil   | 100         | Α       | χ        | χ         | χ              | Α      | Α        | ı              | Х                                       | ı            | -           | Α            | Α                | Χ        | χ          | TVB         |
| Tallow   | 150         | Α       | χ        | χ         | χ              | I      | Α        | Α              | Х                                       | I            | 1           | Α            | Α                | I        | Α          | TBNS        |
| Tannic Acid  | 150         | Α       | Α        | Α         | Α              | I      | В        | Α              | Χ                                       | ı            | 1           | Α            | Α                | Χ        | 1          | TVBN        |
| Tar  |             |         |          |           | SP             | ECIAL  | HOSE     | REQUI          | RED                                     |              |             |              | Α                | Α        | 1          | I           |
| Tartaric Acid  | 150         | Α       | Α        | Α         | Α              | I      | А        | Α              | Α                                       | Α            | Α           | Α            | Α                | 1        | Α          | TBN         |
| Tergitol   | 100         | Χ       | -        | ı         | - 1            | -      | 1        | I              | - 1                                     | I            | -1          | Α            | 1                | 1        | -1         | T           |
| Tertiary Butyl Alcohol                                       | 100         | Α       | Α        | Α         | A              | В      | Α        | Α              | Α                                       | Α            | Α           | Α            | 1                | ı        | 1          | TB          |
| Tetrachlorobenzene   | 100         | В       | χ        | Х         | Х              | В      | Χ        | I              | Х                                       | В            | I           | Α            | 1                | ı        | ı          | T           |
| Tetrachloroethane  | 100         | Α       | Χ        | Х         | Х              | Α      | Χ        | I              | Х                                       | Х            | 1           | Α            | Α                | Х        | Х          | TV          |
| Tetrachloroethylene  | 100         | Α       | χ        | Χ         | Χ              | Α      | χ        | Х              | Х                                       | Α            | В           | Α            | Α                | В        | X          | TV          |
| Tetrachloromethane   | 100         | Α       | χ        | Х         | X              | Α      | χ        | Х              | Х                                       | Х            | В           | Α            | Α                | 1        | ı          | TV          |
| Tetrachloronaphthalene                                       | 100         | В       | Χ        | Х         | X              | В      | Χ        | I              | Х                                       | Х            | 1           | Α            | 1                | 1        | ı          | T           |
| Tetradecanol   | 100         | Α       | Α        | Α         | Α              | В      | Α        | Α              | Α                                       | Α            | Α           | Α            |                  | ı        | ı          | TB          |
| Tetraethylene Glycol   | 150         | Α       | Α        | A         | Α              | Α      | Α        | Α              | Α                                       | Α            | Α           | Α            |                  | 1        | ı          | TVB         |
| Tetraethylene Lead   | 100         | χ       | Χ        | Х         | Х              | Α      | Χ        | Х              | Х                                       | Х            | 1           | Α            | 1                | 1        | ı          | TV          |
| Tetrahydrofuran  | 100         | В       | χ        | Х         | Х              | Χ      | Χ        | Х              | Х                                       | В            | Χ           | Α            | Α                | В        | Х          | T           |
| THF  | 100         | В       | Χ        | Х         | Х              | Χ      | Χ        | Х              | Х                                       | В            | Х           | Α            | Α                | В        | Х          | T           |
| Thionyl Chloride   | 100         | Χ       | 1        | 1         | 1              | -      | -        | <u> </u>       | 1                                       | <u>l</u>     | Χ           | Α            | Х                | χ        | Х          | T           |
| Tin Chloride   | 100         | A       | Α        | Α         | A              | ı      | Α        | Α              | Α                                       | Α            | Α           | Α            | Х                | Х        | Х          | TVB         |
| Tin Tetrachloride  | 150         | В       | Α        | A         | Α              | ı      | Α        | Α              | Α                                       | Α            | Α           | Α            | Х                | Х        | Х          | TB          |
| Titanium Tetrachloride                                       | 100         | В       | Х        | X         | Х              | A      | В        | Х              | X                                       | Α            | В           | Α            | В                | Х        | X          | TV          |
| Toluene  | 100         | Α       | Χ        | Х         | Х              | Α      | Χ        | Х              | X                                       | В            | В           | Α            | A                | Α        | Α          | TV          |
| Toluidine  | 100         | Х       |          |           |                | -      |          |                | l                                       | <u> </u>     |             | Α            |                  |          |            | T           |
| Toluol   | 100         | A       | X        | X         | X              | A      | X        | Х              | X                                       | A            | В           | Α            | A                | A        | A          | TV          |
| Transformer Oil  | 100         | Х       | ,,       |           |                | 1      | 1        | <u> </u>       | l                                       | <u> </u>     | 1           | A            | A                |          | ı          | TUD         |
| Transmission Oil "A"   | 150         | В       | X        | X         | X              | A      | A        |                | X                                       | <u> </u>     |             | A            | A                | A        | A          | TVB         |
| Tributoxy Ethysulphate                                       | 100         | ı       | A        | X         | Х              | A      | Х        | X              | A                                       | X            | 1           | 1            |                  |          | <u> </u>   | V           |
| Tributyl Amine   | 100         | A       | A        | X         | В              | l      | В        | A              | l                                       | A            | A           | A            |                  |          | V          | T           |
| Tributyl Phosphate   | 100         | Α       | Α        | Χ         | Х              | Χ      | Χ        | Χ              | X                                       | Α            |             | Α            | Α                |          | X          | T           |

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# CHEMICAL CHARTS

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| RATING SCALE  A = May be used for  |             |        |           |           | G00         | DYE <i>l</i> |         |                        | ERED F<br>L Hosi |         | CTS       | i             |        |          | FIT     | TING       |
|--|-------------|--------|-----------|-----------|-------------|--------------|---------|------------------------|------------------|---------|-----------|---------------|--------|----------|---------|------------|
| Continuous Service  B = May be used for Intermittent Service  I = Insufficient data, contact customer services  X = Do not use  GASKET |             | Fabcho | Gray Fig. | Yellow E. | Tan Floring | Orango F.    |         | Brown Flexwing Extreme |                  |         | Chem o    | HI-PED® Wiper | Instal | Insta.   | Insta ( | Insta-Lock |
| T = Teflon® V = Viton®   | e (F)       | UHMWPE |           | Hypalon®  |             |              |         |                        |                  |         | Alphasyn" |               |        | Aluminum |         |            |
| $\mathbf{B} = \text{Nitrile}$ $\mathbf{N} = \text{Neoprene}$   | atur        | MH N   | Butyl     | Нура      | 뚲           | Viton®       | Nitrile | CPE                    | EPDM             | XLPE    | Alpha     | Teflon®       | 316 SS | Alm      | Brass   | Gasket     |
| <b>S</b> = Silicone  | Temperature |        |           |           |             | ппс          | E TI    | IBE POI                | VMED             |         |           |               |        | M        | ETAI    |            |
| T  |             |        |           |           |             | поз          | DE TU   | DE FUI                 | LIWIER           |         |           |               |        | IVI      | LIA     |            |
| Trichlorobenzene   | 100         | В      | Χ         | Х         | Х           | В            | X       | Х                      | Χ                | В       | 1         | Α             | 1      | Α        | - 1     | T          |
| Trichloroethane  | 100         | Α      | Χ         | Х         | Х           | Α            | X       | В                      | Х                | Х       | В         | Α             | Α      | ı        | -       | TV         |
| Trichloroethylene  | 100         | Χ      | Χ         | Х         | Χ           | Α            | X       | Х                      | Χ                | Х       | В         | Α             | Α      | I        | ı       | TV         |
| Trichloropropane   | 100         | Α      | Χ         | Х         | Х           | A            | Х       | I                      | Х                | Α       | 1         | Α             | Α      | Х        | ı       | TV         |
| Tricresylphosphate   | 100         | Α      | Α         | Х         | Х           | A            | Х       | Α                      | Α                | Α       | 1         | Α             | Α      | Х        |         | TV         |
| Tridecanol   | 100         | Α      | Α         | Α         | Α           | В            | Α       | Α                      | Α                | Α       | Α         | Α             | 1      | ı        | -       | TB         |
| Triethanolamine  | 100         | Α      | Α         | Х         | В           | Х            | В       | Α                      | Α                | Α       | Α         | Α             | Α      | ı        | Х       | TB         |
| Triethylamine  | 100         | Α      | Α         | Х         | В           | ı            | В       | A                      | ı                | A       | Α         | Α             | Α      | ı        |         | TVBN       |
| Triethylene Glycol   | 150         | Α      | Α         | A         | Α           | 1            | Α       | Α                      | ı                | Α       | Α         | Α             | Α      | Α        | -       | TB         |
| Trifluralin (Trefalin)   | 100         | Α      | Х         | Х         | Х           | A            | Х       | Х                      | Х                | Α       | -         | Α             | -      | 1        |         | TV         |
| Triphenyl Phosphate  | 100         | Α      | Α         | Х         | Х           | 1            | Х       | I                      | ı                | Α       | -         | Α             | Α      | 1        |         | T          |
| Tripolyphosphate   | 100         | χ      | ı         | ı         | ı           | ı            | 1       | I                      | ı                | I       | ı         | Α             | ı      | ı        | -       | T          |
| Trisodium Phosphate  | 150         | Α      | Α         | A         | Α           | A            | A       | Α                      | Α                | Α       | Α         | Α             | Α      | X        |         | TVBNS      |
| Turpentine   | 100         | Α      | X         | Х         | Х           | A            | A       | В                      | Х                | A       | Χ         | Α             | Α      | Α        | Α       | TVB        |
| U  |             |        |           |           |             |              |         |                        |                  |         |           |               |        |          |         |            |
| Urea   | 100         | Α      | Α         | ı         | ı           | ı            | Х       | Α                      | I                | Α       | Α         | Α             | Α      | В        | - 1     | TVBN       |
| Undecanol  | 100         | В      | Α         | Α         | Α           | В            | A       | Α                      | Α                | Α       | Α         | Α             | - 1    | -        | -       | TB         |
| V  |             |        |           |           |             |              |         |                        |                  |         |           |               |        |          |         |            |
| V.M. & P. Naptha   | 100         | Α      | Χ         | Х         | χ           | Α            | А       | I                      | Х                | Α       | 1         | Α             | -      |          | -       | TVBS       |
| Vinyl Acetate  | 100         | Α      | Α         | В         | Χ           | Χ            | χ       | Α                      | Х                | Α       | В         | Α             | Α      | ı        | Χ       | ΤV         |
| Vinyl Benzene  | 100         | Α      | Χ         | Х         | Χ           | Α            | χ       | Χ                      | Х                | А       | -1        | Α             | Α      | Ι        | - 1     | TV         |
| Vinyl Chloride   |             |        |           |           |             |              |         |                        | IS APPL          |         |           |               |        |          |         |            |
| Vinyl Ether  |             |        | NO        | HOSI      | E REC       | OMME         | NDED    | FOR TH                 | IS APPL          | ICATION |           |               |        |          |         |            |
| Vinyl Toluene  | 100         | Α      | Χ         | Х         | Х           | Α            | Х       | Х                      | Х                | A       | I         | Α             | I      | ı        | -1      | TV         |
| Vinyl Trichloride  | 100         | Α      | Χ         | Х         | Х           | Α            | χ       | Χ                      | Х                | Α       | В         | Α             | Α      | I        | 1       | TV         |



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| <b>RATIN</b> $A = May be us$              | IG SCALE               |             |        |       |           | GOO       | DYE    |                |                         | ERED F<br>L Hose        |                    | CTS       | 3         |         |          | FII     | TING       |
|---|------------------------|-------------|--------|-------|-----------|-----------|--------|----------------|-------------------------|-------------------------|--------------------|-----------|-----------|---------|----------|---------|------------|
|   | us Service             |             |        |       | 7         | 7         | 7      | 7              |                         | ,                       | ,                  | /         | 7         | 7       | _        |         |            |
| <b>B</b> = May be us                      | sed for<br>ent Service |             |        |       |           | / ,       | /      | /              | Brown Flexwing Extremes | Purple Flexwing  Extrem | aldin              |           | Viper     | . /     | /        |         |            |
|   | nt data, contact       |             |        | _ /   | Yellow E. | Mille     | 20/    | Flexwing       | etro,<br>Wing           |                         | Green XIPE Blue F. | .jg/      | HI-PED® W | / /     | /<br># / | //      | / /_       |
| customer                                  | services               |             | Fabcha |       |           | Tan Flore |        | 1 / E          |                         | e Fie                   |                    |           |           | Insta ( | "Hoch"   | Insta , | Insta-Lock |
| <b>X</b> = Do not us                      | -                      | ı           | /apc/  | Srav  |           | Tan E     | J'alli | $F_{lex_{ij}}$ | Ztree W                 |                         | Gree,              |           | HI-PED®   | 1/24    | 1/2      | 184     | Insta      |
|   | SKET                   | Æ           |        |       | I         |           | _      |                | 7 7                     |                         | /                  | 12        |           |         |          |         |            |
| T = Teflon®                               | <b>V</b> = Viton®      | are         | UHMWPE | Butyl | Hypalon®  |           | Viton® | Nitrile        | 3                       | ЕРОМ                    | XLPE               | Alphasyn™ | Teflon®   | 316 SS  | Aluminum | Brass   | Gasket     |
| <b>B</b> = Nitrile<br><b>S</b> = Silicone | <b>N</b> = Neoprene    | Temperature | 三      | 盈     | £         | 풀         | ¥.     | ž              | CPE                     | 읍                       | ₹                  | ₹         | 귤         | 31      | Alt      | Bri     | Ga         |
|   |                        | emb         |        |       |           |           | HOS    | E TU           | BE POL                  | YMER                    |                    |           |           |         | М        | ETA     |            |
|   | W                      | ·           |        |       |           |           |        |                |                         |                         |                    |           |           |         |          |         |            |
| Water                                     |                        | 180         | Α      | Α     | A         | Α         | Α      | Α              | A                       | A                       | Α                  | Α         | Α         | Α       | ı        | -       | TVBNS      |
| Wax                                       |                        | 100         | Α      | Χ     | X         | Х         | Χ      | Α              | Α                       | X                       | Х                  | X         | Α         | Α       | ı        | -       | TVBN       |
| White Oil                                 |                        | 100         | Α      | Χ     | X         | Х         | I      | Α              | Α                       | X                       | 1                  | -         | Α         | 1       | ı        | -       | TVB        |
| Wood Alcohol                              |                        | 100         | Α      | Α     | Α         | Α         | Χ      | Α              | Α                       | Α                       | Α                  | Α         | Α         | Α       | I        | -1      | TBNS       |
|   | Х                      |             |        |       |           |           |        |                |                         |                         |                    |           |           |         |          |         |            |
| Xylene (Xylol)                            |                        | 100         | Χ      | Χ     | Х         | Х         | Α      | Χ              | Χ                       | Х                       | Α                  | В         | Α         | Α       | ı        | -       | TV         |
| Xylidine                                  |                        | 100         | В      | Χ     | Х         | Χ         | Χ      | χ              | Χ                       | Х                       | В                  | В         | Α         | В       | Α        | Ι       | Т          |
|   | Z                      |             |        |       |           |           |        |                |                         |                         |                    |           |           |         |          |         |            |
| Zinc Carbonate                            |                        | 150         | Α      | Α     | Α         | Α         | Α      | Α              | Α                       | Α                       | Α                  | Α         | Α         | В       | В        | Χ       | TVBN       |
| Zinc Chloride                             |                        | 150         | Α      | Α     | А         | Α         | Α      | Α              | Α                       | Α                       | Α                  | Α         | Α         | А       | Χ        | Х       | TVBNS      |
| Zinc Chromate                             |                        | 150         | Α      | Α     | Х         | I         | 1      | 1              | Α                       | Χ                       | В                  | 1         | Α         | 1       | I        | 1       | T          |
| Zinc Phosphate                            |                        | 100         | Α      | Χ     | Х         | Χ         | Χ      | Α              | Α                       | Α                       | Χ                  | 1         | Α         | Ι       | Ι        | Ι       | TBNS       |
| Zinc Sulfate                              |                        | 150         | Α      | Α     | Α         | Α         | Α      | Α              | Α                       | А                       | Α                  | А         | Α         | Α       | Χ        | Χ       | TVBNS      |
|   | ·                      |             |        | _     |           |           | _      |                |                         |                         |                    | _         | _         | _       |          | _       |            |

AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS



### AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

# CHEMICAL TRANSFER

### CLEANING EQUIPMENT

### FOOD Transfer Washdown

### MARINE

### MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

### MINING

### PETROLEUM Aircraft Fueling Dispensing Dock Transfer

### **SPRAY**

### STEAM

### VACUUM

### **VEYANCE**

| WATER     |
|-----------|
| Discharge |
| Suction & |
| Discharge |
| Machdown  |

### WELDING

### COUPLING SYSTEMS

# SPIRAFLEX HOSE CHEMICAL RESISTANCE GUIDE

| Thermoplastic   | Hos              | e                       |                  |              |                     |
|---|------------------|-------------------------|------------------|--------------|---------------------|
| <ul> <li>A = May be used for Continuous Service</li> <li>B = May be used for Intermittent Service</li> <li>X = Do not use</li> <li>I = Insufficient data</li> </ul> | Temperature (°F) | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |
| Acetaldehyde  | 70°              | Χ                       | Χ                | -            | X                   |
| Acetic Acid, Conc.  | 70°              | Х                       | В                | _            | 1                   |
| Acetic Acid, Dilute 10  | 70°              | В                       | Α                | 1            | I                   |
| Acetic Acid, Glacial  | 70°              | Χ                       | В                | -            | Χ                   |
| Acetic Aldehyde   | 70°              | ı                       | χ                | 1            | Χ                   |
| Acetic Anhydride  | 70°              | Χ                       | χ                | χ            | Χ                   |
| Acetic Ester  | 70°              | Χ                       | Χ                | χ            | В                   |
| Acetic Ether  | 70°              | Χ                       | Χ                | χ            | -                   |
| Acetone   | 70°              | Χ                       | χ                | χ            | В                   |
| Acetone Cyanohydrin   | 70°              | Χ                       | χ                | χ            | I                   |
| Acetyl Acetone  | 70°              | Χ                       | χ                | χ            | 1                   |
| Acetyl Chloride   | 70°              | χ                       | ١                | χ            | Χ                   |
| Acetylene Dichloride  | 70°              | 1                       | χ                | 1            | Χ                   |
| Acetylene Tetrachloride   | 70°              | 1                       | χ                | -            | -                   |
| Acrylonitrile   | 70°              | Α                       | Α                | В            | 1                   |
| Allyl Alcohol   | 70°              | Χ                       | χ                | χ            | Χ                   |
| Allyl Bromide   | 70°              | Χ                       | χ                | χ            | 1                   |
| Allyl Chloride  | 70°              | Χ                       | χ                | χ            | Τ                   |
| Alum  | 70°              | Α                       | Α                | Α            | В                   |
| Aluminum Acetate  | 70°              | Ι                       | Ι                | 1            | T                   |
| Aluminum Chloride   | 70°              | Α                       | Α                | Α            | В                   |
| Aluminum Hydroxide  | 70°              | Α                       | Α                | Α            | 1                   |
| Aluminum Sulfate  | 70°              | Α                       | Α                | Α            | В                   |
| Ammonia Cupric Sulfate  | 70°              | 1                       | χ                | 1            | T                   |
| Ammonia Water   | 70°              | Α                       | Α                | Α            | Α                   |
| Ammonium Chloride   | 70°              | Α                       | Α                | Α            | В                   |
| Ammonium Hydroxide  | 70°              | В                       | В                | 1            | В                   |
| Ammonium Nitrate  | 70°              | Α                       | Α                | Α            | ı                   |
| Ammonium Phosphate  | 70°              | ı                       | I                | 1            | В                   |
| Ammonium Sulfate  | 70°              | Α                       | Α                | Α            | В                   |
| Ammonium Sulfide  | 70°              | Α                       | Α                | Α            | ı                   |
| Ammonium Sulfite  | 70°              | Α                       | Α                | Α            | ı                   |
| Ammonium Thiosulfate  | 70°              | Α                       | Α                | -            | I                   |

| A = May be used for Continuous Service B = May be used for Intermittent Service X = Do not use I = Insufficient data A  Amyl Acetate Amyl Acetate 70° X X X X X  Amyl Alcohol 70° B B I X  Amyl Phenol 70° I X I I  Amiline Oils 70° A A A I  Animal Grease 70° A A A I  Arsenic Acid 70° A A A I  Arsenic Chloride 70° A A A I  Arsenic Trichloride 70° A A A I  Ashmit 10il 70° A A A I  Ashmit 20il 70° A A A I  Ashmit 20il 70° A A A I  Barium Carbonate 70° A A A I  Barium Carbonate 70° A A A I  Barium Sulfide 70° A A A I  Barium Sulfide 70° A A A I  Benzyl Chloride 70° A A A A I | Thermoplastic  | Hos | е                       |                  |              |                     |
|--|--|-----|-------------------------|------------------|--------------|---------------------|
| Amyl Alcohol         70°         B         B         I         X           Amyl Chloride         70°         X         X         X         X           Amyl Phenol         70°         I         X         I         I           Amyl Phthalate         70°         I         X         I         I           Aniline Oils         70°         X         X         X         I           Animal Grease         70°         A         A         A         I           Animal Oils         70°         A         A         A         X           Aqua Ammonia         70°         I         B         B         I           Aromatic Tar         70°         A         A         A         X           Arsenic Acid         70°         A         A         I         I           Arsenic Chloride         70°         A         A         I         I           Arsenic Trichloride         70°         A         A         I         I           Asphalt         70°         A         A         X         X           Asymalt         10il         70°         A         A         A  | Continuous Service  B = May be used for Intermittent Service  X = Do not use I = Insufficient data |     | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |
| Amyl Chloride         70° X X X X           Amyl Phenol         70° I X I I           Amyl Phthalate         70° I X I I           Aniline Oils         70° X X X X I           Animal Grease         70° A A A I           Animal Oils         70° A A A X           Aqua Ammonia         70° I B B I           Aromatic Tar         70° X X X X I           Arsenic Acid         70° A A I I           Arsenic Chloride         70° A A I I           Asphalt         70° X X X X X           ASTM #1 Oil         70° A A A I           ASTM #2 Oil         70° A A B X           ASTM #3 Oil         70° A A B X           Barium Carbonate         70° A A A I           Barium Sulfate         70° A A A I           Barium Sulfate         70° A A A I           Barium Sulfide         70° A A A I           Barium Sulfide         70° A A A I           Barium Sulfide         70° A A A I           Benzaldehyde         70° X X X X X           Benzene (Benzol)         70° X X X X X           Benzine Cligroin)         70° X X X X X           Benzoic Acid         70° B A A B           Benzoic Aldehyde         70° I X I X I I  | Amyl Acetate   | 70° | χ                       | χ                | Χ            | χ                   |
| Amyl Phenol         70°         I         X         I         I           Amyl Phthalate         70°         I         X         I         I           Aniline Oils         70°         X         X         X         I           Animal Grease         70°         A         A         A         I           Animal Oils         70°         A         A         A         I           Aqua Ammonia         70°         I         B         B         I           Aromatic Tar         70°         X         X         X         I           Arsenic Acid         70°         A         A         A         I         I           Arsenic Chloride         70°         A         A         I         I           Arsenic Trichloride         70°         A         A         I         I           Asphalt         70°         A         A         I         I           Asphalt         70°         A         A         A         X           Astm #1 Oil         70°         A         A         A         X           Astm #2 Oil         70°         A         A         A <t< td=""><td>Amyl Alcohol</td><td>70°</td><td>В</td><td>В</td><td>I</td><td>χ</td></t<>   | Amyl Alcohol   | 70° | В                       | В                | I            | χ                   |
| Amyl Phthalate         70°         I         X         I         I           Aniline Oils         70°         X         X         X         I           Animal Grease         70°         A         A         A         I           Animal Oils         70°         A         A         A         X           Aqua Ammonia         70°         I         B         B         I           Aromatic Tar         70°         X         X         X         I           Arsenic Acid         70°         A         A         I         I           Arsenic Chloride         70°         A         A         I         I           Arsenic Trichloride         70°         A         A         I         I           Arsenic Trichloride         70°         A         A         I         I           Arsenic Trichloride         70°         A         A         I         I           Asphalt         70°         A         A         X         X           Astronic Trichloride         70°         A         A         A         X           Astronic Trichloride         70°         A         A <t< td=""><td>Amyl Chloride</td><td>70°</td><td>χ</td><td>χ</td><td>χ</td><td>χ</td></t<>  | Amyl Chloride  | 70° | χ                       | χ                | χ            | χ                   |
| Aniline Oils         70° X X X I           Animal Grease         70° A A A I           Animal Oils         70° A A A X           Aqua Ammonia         70° I B B I           Aromatic Tar         70° X X X X I           Arsenic Acid         70° A A I I           Arsenic Chloride         70° A A I I           Arsenic Trichloride         70° A A I I           Asphalt         70° A A A I I           ASTM #1 Oil         70° A A A I X           ASTM #2 Oil         70° A A B X           Barium Carbonate         70° A A B X           Barium Chloride         70° A A A I           Barium Sulfate         70° A A A I           Barium Sulfate         70° A A A I           Benzul Chloride         70° A A A I           Benzaldehyde         70° A A A I           Benzaldehyde         70° A A A I           Benzene (Benzol)         70° A A A I           Benzine Solvent (Ligroin)         70° A A A B           Benzoic Acid         70° B A B B           Benzoic Aldehyde         70° B A B B   | Amyl Phenol  | 70° | 1                       | χ                | 1            | 1                   |
| Animal Grease         70°         A         A         A         I           Animal Oils         70°         A         A         A         X           Aqua Ammonia         70°         I         B         B         I           Aromatic Tar         70°         X         X         X         I           Arsenic Acid         70°         A         A         I         I           Arsenic Chloride         70°         A         A         I         I           Arsenic Trichloride         70°         A         A         I         I           Asphalt         70°         A         A         A         I         I           Asphalt         70°         A         A         A         X         X           ASTM #1 Oil         70°         A         A         A         X         X           ASTM #2 Oil         70°         A         A         A         I         X           Barium Carbonate         70°         A         A         A         I           Barium Chloride         70°         A         A         A         I           Barium Sulfate         70°  | Amyl Phthalate   | 70° | 1                       | χ                | 1            | 1                   |
| Animal Oils         70°         A         A         A         X           Aqua Ammonia         70°         I         B         B         I           Aromatic Tar         70°         X         X         X         I           Arsenic Acid         70°         A         A         I         I           Arsenic Chloride         70°         A         A         I         I           Arsenic Trichloride         70°         A         A         I         I           Asphalt         70°         A         A         I         I           Asphalt         70°         A         A         A         X         X           ASTM #1 Oil         70°         A         A         A         X         X           ASTM #2 Oil         70°         A         A         B         X           Barium 20il         70°         A         A         A         I           Barium Carbonate         70°         A         A         A         I           Barium Chloride         70°         A         A         A         I           Barium Sulfate         70°         A         A  | Aniline Oils   | 70° | χ                       | χ                | Χ            | ı                   |
| Aqua Ammonia         70°         I         B         B         I           Aromatic Tar         70°         X         X         X         I           Arsenic Acid         70°         A         A         I         I           Arsenic Chloride         70°         A         A         I         I           Arsenic Trichloride         70°         A         A         I         I           Asphalt         70°         A         A         I         I           Asphalt         70°         A         A         A         X           ASTM #1 Oil         70°         A         A         A         X           ASTM #2 Oil         70°         A         A         B         X           Barium #2 Oil         70°         A         A         B         X           Barium Carbonate         70°         A         A         A         I           Barium Carbonate         70°         A         A         A         I           Barium Chloride         70°         A         A         A         I           Barium Sulfate         70°         A         A         A         I <td>Animal Grease</td> <td>70°</td> <td>Α</td> <td>Α</td> <td>Α</td> <td>ı</td>   | Animal Grease  | 70° | Α                       | Α                | Α            | ı                   |
| Aromatic Tar         70°         X         X         X         I           Arsenic Acid         70°         A         A         I         I           Arsenic Chloride         70°         A         A         I         I           Arsenic Trichloride         70°         A         A         I         I           Asphalt         70°         A         A         I         I           AsTM #1 Oil         70°         A         A         A         X           ASTM #2 Oil         70°         A         A         A         I         X           ASTM #3 Oil         70°         A         A         B         X           Barium Carbonate         70°         A         A         A         I         X           Barium Chloride         70°         A         A         A         I         I           Barium Sulfate         70°         A         A         A         I         I           Benzyl Chloride         70°         A         A         A         I         I         I         I         I         I         I         I         I         I         I         I   | Animal Oils  | 70° | Α                       | А                | Α            | χ                   |
| Arsenic Acid         70°         A         A         I           Arsenic Chloride         70°         A         A         I         I           Asphalt         70°         A         A         I         I           Asphalt         70°         A         A         A         X           ASTM #1 Oil         70°         A         A         A         X           ASTM #2 Oil         70°         A         A         B         X           Barium #2 Oil         70°         A         A         B         X           Barium Garbonate         70°         A         A         A         I         X           Barium Carbonate         70°         A         A         A         I         I           Barium Chloride         70°         A         A         A         I         I           Barium Hydroxide         70°         A         A         A         I         I           Barium Sulfide         70°         A         A         A         I         I           Benzaldehyde         70°         X         X         X         X         X           Benzine (Ligroin) <td>Aqua Ammonia</td> <td>70°</td> <td>1</td> <td>В</td> <td>В</td> <td>I</td>  | Aqua Ammonia   | 70° | 1                       | В                | В            | I                   |
| Arsenic Chloride         70° A A I I           Arsenic Trichloride         70° A A I I           Asphalt         70° X X X X           ASTM #1 Oil         70° A A A I X           ASTM #2 Oil         70° A A B X           Barium 2 Oil         70° A A B X           Barium Carbonate         70° A A A I           Barium Chloride         70° A A A I           Barium Hydroxide         70° A A A I           Barium Sulfate         70° A A A I           Barium Sulfide         70° A A A I           Benzyl Chloride         70° A A A I           Benzaldehyde         70° X X X X X           Benzene (Benzol)         70° X X X X X           Benzine Solvent (Ligroin)         70° X X X X X           Benzoic Acid         70° B A B           Benzoic Aldehyde         70° I X I I  | Aromatic Tar   | 70° | Χ                       | χ                | χ            | ١                   |
| Arsenic Trichloride         70° A A I I           Asphalt         70° X X X X           ASTM #1 Oil         70° A A I X           ASTM #2 Oil         70° A A I X           ASTM #3 Oil         70° A A B X           Barium Carbonate         70° A A A I           Barium Chloride         70° A A A I           Barium Hydroxide         70° A A A I           Barium Sulfate         70° A A A I           Barium Sulfide         70° A A A I           Benzyl Chloride         70° A A A I           Benzaldehyde         70° X X X X           Benzene (Benzol)         70° X X X X           Benzine (Ligroin)         70° X X X X           Benzine Solvent (Ligroin)         70° X X X X           Benzoic Acid         70° B A B           Benzoic Aldehyde         70° I X I I  | Arsenic Acid   | 70° | Α                       | А                | Α            | I                   |
| Asphalt         70°         X         X         X         X           ASTM #1 Oil         70°         A         A         A         X           ASTM #2 Oil         70°         A         A         I         X           ASTM #3 Oil         70°         A         A         B         X           Barium #3 Oil         70°         A         A         A         I         X           Barium Carbonate         70°         A         A         A         I         I         A         A         I         I         Barium Gulfate         70°         A         A         A         I         I         Barium Sulfate         70°         A         A         A         I         I         Benzyl Chloride         70°         A         A         A         I         I         Benzaldehyde         70°         X  | Arsenic Chloride   | 70° | Α                       | Α                | 1            | ١                   |
| ASTM #1 0il 70° A A I X  ASTM #2 0il 70° A A I X  ASTM #3 0il 70° A A B X  B  Barium Carbonate 70° A A A I  Barium Chloride 70° A A A I  Barium Hydroxide 70° A A A I  Barium Sulfate 70° A A A I  Barium Sulfide 70° A A A I  Benzyl Chloride 70° A A A I  Benzaldehyde 70° A A A I  Benzaldehyde 70° A A A I  Benzaldehyde 70° A A A I  Benzene (Benzol) 70° A A A A I  Benzene (Benzol) 70° A A A A I  Benzine Solvent (Ligroin) 70° A A A A I  Benzine Solvent (Ligroin) 70° A A A B  Benzoic Aldehyde 70° B A B  Benzoic Aldehyde 70° I X I I  | Arsenic Trichloride  | 70° | Α                       | А                | I            | 1                   |
| ASTM #2 0il 70° A A I X ASTM #3 0il 70° A A B X  B Barium Carbonate 70° A A A I Barium Chloride 70° A A A I Barium Hydroxide 70° A A A I Barium Sulfate 70° A A A I Barium Sulfate 70° A A A I Benzyl Chloride 70° A A A I Benzyl Chloride 70° A A A I Benzyl Chloride 70° A A A I Benzaldehyde 70° A A A I Benzaldehyde 70° X X X X Benzine (Benzol) 70° X X X X Benzine Solvent (Ligroin) 70° X X X X Benzine Solvent (Ligroin) 70° X X X X Benzoic Acid 70° B A B Benzoic Aldehyde 70° I X I I  | Asphalt  | 70° | χ                       | χ                | χ            | χ                   |
| ASTM #3 0il 70° A A B X  B  Barium Carbonate 70° A A A I  Barium Chloride 70° A A A I  Barium Hydroxide 70° A A A I  Barium Sulfate 70° A A A I  Barium Sulfide 70° A A A I  Benzyl Chloride 70° I X I I  Benzaldehyde 70° X X X X X  Benzene (Benzol) 70° X X X X X  Benzine (Ligroin) 70° X X X X X  Benzine Solvent (Ligroin) 70° X X X X X  Benzoic Acid 70° B A B  Benzoic Aldehyde 70° I X I I   | ASTM #1 Oil  | 70° | Α                       | Α                | Α            | χ                   |
| Barium Carbonate 70° A A A I Barium Chloride 70° A A A I Barium Hydroxide 70° A A A I Barium Sulfate 70° A A A I Barium Sulfide 70° A A A I Benzyl Chloride 70° I X I I Benzaldehyde 70° X X X X Benzene (Benzol) 70° X X X X Benzine (Ligroin) 70° X X X X Benzine Solvent (Ligroin) 70° X X X X Benzoic Acid 70° B A B Benzoic Aldehyde 70° I X I I  | ASTM #2 Oil  | 70° | Α                       | Α                | Ι            | χ                   |
| Barium Carbonate70°AAAIBarium Chloride70°AAAIBarium Hydroxide70°AAAIBarium Sulfate70°AAAIBenzyl Chloride70°IXIIBenzaldehyde70°XXXXBenzene (Benzol)70°XXXXBenzine (Ligroin)70°XXXXBenzine Solvent (Ligroin)70°XXXXBenzoic Acid70°BABBB  | ASTM #3 Oil  | 70° | Α                       | Α                | В            | χ                   |
| Barium Chloride70°AAAIBarium Hydroxide70°AAAIBarium Sulfate70°AAAIBarium Sulfide70°AAAIBenzyl Chloride70°IXIIBenzaldehyde70°XXXXBenzene (Benzol)70°XXXXBenzine (Ligroin)70°XXXXBenzine Solvent (Ligroin)70°XXXXBenzoic Acid70°BAABBenzoic Aldehyde70°IXIII   | В  |     |                         |                  |              |                     |
| Barium Hydroxide70°AAAIBarium Sulfate70°AAAIBarium Sulfide70°AAAIBenzyl Chloride70°IXIIBenzaldehyde70°XXXXBenzene (Benzol)70°XXXXBenzine (Ligroin)70°XXXXBenzine Solvent (Ligroin)70°XXXXBenzoic Acid70°BABBenzoic Aldehyde70°IXII   | Barium Carbonate   | 70° | Α                       | Α                | Α            | I                   |
| Barium Sulfate 70° A A A I Barium Sulfide 70° A A A I Benzyl Chloride 70° I X I I Benzaldehyde 70° X X X X Benzene (Benzol) 70° X X X X Benzine (Ligroin) 70° X X X X Benzine Solvent (Ligroin) 70° X X X X Benzoic Acid 70° B A B Benzoic Aldehyde 70° I X I I  | Barium Chloride  | 70° | Α                       | Α                | Α            | ı                   |
| Barium Sulfide70°AAAIBenzyl Chloride70°IXIIBenzaldehyde70°XXXXBenzene (Benzol)70°XXXXBenzine (Ligroin)70°XXXXBenzine Solvent (Ligroin)70°XXXBenzoic Acid70°BABBenzoic Aldehyde70°IXII  | Barium Hydroxide   | 70° | Α                       | Α                | Α            | 1                   |
| Benzyl Chloride70°IXIIBenzaldehyde70°XXXBenzene (Benzol)70°XXXBenzine (Ligroin)70°XXXBenzine Solvent (Ligroin)70°XXXBenzoic Acid70°BAABBenzoic Aldehyde70°IXII   | Barium Sulfate   | 70° | Α                       | Α                | Α            | 1                   |
| Benzaldehyde70°XXXBenzene (Benzol)70°XXXBenzine (Ligroin)70°XXXBenzine Solvent (Ligroin)70°XXXBenzoic Acid70°BAABBenzoic Aldehyde70°IXII   | Barium Sulfide   | 70° | Α                       | Α                | Α            | ı                   |
| Benzene (Benzol)         70°         X         X         X           Benzine (Ligroin)         70°         X         X         X           Benzine Solvent (Ligroin)         70°         X         X         X           Benzoic Acid         70°         B         A         A         B           Benzoic Aldehyde         70°         I         X         I         I   | Benzyl Chloride  | 70° | Ι                       | χ                | I            | I                   |
| Benzine (Ligroin)70°XXXBenzine Solvent (Ligroin)70°XXXBenzoic Acid70°BAABBenzoic Aldehyde70°IXII   | Benzaldehyde   | 70° | χ                       | χ                | χ            | χ                   |
| Benzine Solvent (Ligroin) 70° X X X X Benzoic Acid 70° B A B Benzoic Aldehyde 70° I X I I  | Benzene (Benzol)   | 70° | χ                       | χ                | χ            | χ                   |
| Benzoic Acid 70° B A A B Benzoic Aldehyde 70° I X I I  | Benzine (Ligroin)  | 70° | χ                       | χ                | χ            | χ                   |
| Benzoic Aldehyde 70° I X I I   | Benzine Solvent (Ligroin)  | 70° | χ                       | χ                | χ            | χ                   |
|  | Benzoic Acid   | 70° | В                       | Α                | Α            | В                   |
|  | Benzoic Aldehyde   | 70° | I                       | χ                | I            | I                   |
| Benzotrichioride   /U   I   X   I   I  | Benzotrichloride   | 70° | 1                       | χ                | 1            | ı                   |
| Benzoyl Chloride 70° I X I I   | Benzoyl Chloride   | 70° | I                       | χ                | I            | Ι                   |
| Benzyl Acetate 70° I X I I   | ·  | 70° | I                       | χ                | I            | ı                   |



# SPIRAFLEX HOSE CHEMICAL RESISTANCE GUIDE MULTIPURPOSE

| Thermoplastic   | : Hos           | e                       |                  |              |                     |
|---|-----------------|-------------------------|------------------|--------------|---------------------|
| <ul> <li>A = May be used for<br/>Continuous Service</li> <li>B = May be used for<br/>Intermittent Service</li> <li>X = Do not use</li> <li>I = Insufficient data</li> </ul> | Temperature (F) | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |
| Benzyl Chloride   | 70°             | 1                       | χ                | ı            | I                   |
| Bichromate of Soda  | 70°             | Ι                       | Α                |              | I                   |
| Black Sulfate Liquor  | 70°             | Α                       | Α                | Α            | 1                   |
| Bleach  | 70°             | Α                       | Α                | Α            | В                   |
| Brine   | 70°             | Α                       | Α                | Α            | В                   |
| Bromine   | 70°             | Х                       | χ                | χ            | χ                   |
| Bromo Benzene   | 70°             | ı                       | χ                | 1            | χ                   |
| Bromo Toluene   | 70°             | 1                       | χ                | ı            | ı                   |
| Bromochloromethane  | 70°             | 1                       | χ                | 1            | χ                   |
| Butanol   | 70°             | 1                       | χ                | ı            | В                   |
| Butyl (Normal) Alcohol  | 70°             | T                       | χ                | χ            | В                   |
| Butyl (Secondary) Alcohol   | 70°             | T                       | χ                | χ            | В                   |
| Butyl Acetate   | 70°             | Χ                       | χ                | Ι            | χ                   |
| Butyl Acetoacetate  | 70°             | T                       | χ                | 1            | ı                   |
| Butyl Acrylate  | 70°             | Ι                       | χ                | ı            | ı                   |
| Butyl Alcohol   | 70°             | Α                       | Α                | Α            | В                   |
| Butyl Benzene   | 70°             | T                       | χ                | ı            | _                   |
| Butyl Benzl Phthalate   | 70°             | ı                       | χ                | I            |                     |
| Butyl Bromide   | 70°             | ı                       | χ                | ı            |                     |
| Butyl Butyrate  | 70°             | ı                       | χ                | I            | 1                   |
| Butyl Chloride  | 70°             | Ι                       | χ                | ı            |                     |
| Butyl Phthalate   | 70°             | ı                       | χ                | I            | χ                   |
| Butyric Acid  | 70°             | ı                       | χ                | В            | ı                   |
| C   |                 |                         |                  |              |                     |
| Cadmium Acetate   | 70°             | 1                       | Α                | 1            | ı                   |
| Calcium Acetate   | 70°             | 1                       | Α                | ı            | T                   |
| Calcium Aluminate   | 70°             | T                       | Α                | 1            | 1                   |
| Calcium Bichromate  | 70°             | ı                       | Α                | ı            | ı                   |
| Calcium Bisulfate   | 70°             | ı                       | Α                | В            | ı                   |
| Calcium Bisulfite   | 70°             | Α                       | Α                | Α            |                     |
| Calcium Carbonate   | 70°             | Α                       | Α                | Α            | 1                   |
| Calcium Chloride  | 70°             | Α                       | Α                | Α            | ı                   |
| Calcium Hydroxide (Caustic Lime)  | 70°             | Α                       | Α                | Α            |                     |

| Thermoplastic   | Hos              | е                       |                  |              |                     |
|---|------------------|-------------------------|------------------|--------------|---------------------|
| <ul> <li>A = May be used for<br/>Continuous Service</li> <li>B = May be used for<br/>Intermittent Service</li> <li>X = Do not use</li> <li>I = Insufficient data</li> </ul> | Temperature (°F) | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |
| Calcium Hypochlorite  | 70°              | Α                       | Α                | I            | I                   |
| Calcium Nitrate   | 70°              | Α                       | Α                | ı            | ı                   |
| Calcium Silicate  | 70°              | Α                       | Α                | ı            | I                   |
| Calcium Sulfate   | 70°              | Α                       | Α                | Α            |                     |
| Calcium Sulfide   | 70°              | Α                       | Α                | 1            | 1                   |
| Calcium Sulfite   | 70°              | Α                       | Α                | ı            | I                   |
| Carbolic Acid, Phenol   | 70°              | Χ                       | χ                | χ            | χ                   |
| Carbon Dioxide  | 70°              | Α                       | Α                | Α            | В                   |
| Carbon Disulfide  | 70°              | χ                       | χ                | χ            | χ                   |
| Carbon Monoxide   | 70°              | Α                       | Α                | Α            | В                   |
| Carbon Tetrachloride  | 70°              | χ                       | χ                | χ            | χ                   |
| Carbonic Acid   | 70°              | 1                       | Α                | Α            | 1                   |
| Casinghead Gasoline   | 70°              | 1                       | χ                | χ            | Χ                   |
| Caster Oil (Castor Oil)   | 70°              | Α                       | Α                | Α            | ı                   |
| Caustic Potash  | 70°              | Α                       | Α                | Α            | Α                   |
| Caustic Soda  | 70°              | Α                       | Α                | Α            | В                   |
| Chlorinated Solvents  | 70°              | -                       | χ                | ı            | I                   |
| Chlorine (Dry)  | 70°              | Α                       | Α                | Α            | В                   |
| Chlorine (Wet)  | 70°              | В                       | χ                | ı            | В                   |
| Chloroacetone   | 70°              | -                       | χ                | 1            | I                   |
| Chlorobenzene   | 70°              | χ                       | χ                | χ            | χ                   |
| Chlorobutane  | 70°              | _                       | χ                | 1            | ı                   |
| Chloroethylbenzene  | 70°              | _                       | χ                | 1            | 1                   |
| Chloroform  | 70°              | χ                       | χ                | χ            | χ                   |
| Chloropentane   | 70°              | _                       | χ                | I            | χ                   |
| Chlorophenol  | 70°              | _                       | χ                | 1            | ı                   |
| Chloropropanone   | 70°              | _                       | χ                | 1            |                     |
| Chlorosulfonic Acid   | 70°              |                         | В                | ı            | χ                   |
| Chlorothene   | 70°              | I                       | χ                | ı            | χ                   |
| Chlorotoluene   | 70°              | χ                       | χ                | χ            | χ                   |
| Chromic Acid  | 70°              | В                       | В                | В            | В                   |
| Copper Chloride   | 70°              | Α                       | Α                | Α            | В                   |
|   |                  |                         |                  |              | _                   |

AIR &

General Purpose Heavy Duty Push-on

> CHEMICAL **TRANSFER**

**CLEANING EQUIPMENT** 

> FOOD Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer

MINING

Cement & Concrete

**PETROLEUM** Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER Suction & Washdown

WELDING

COUPLING **SYSTEMS** 



# AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

# CHEMICAL TRANSFER

### CLEANING EQUIPMENT

### FOOD Transfer Washdown

### MARINE

### MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

### MINING

### PETROLEUM Aircraft Fueling Dispensing Dock Transfer

### **SPRAY**

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| $\cup$ | 1 | L-/ |    | ٧ | I |
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### VACUUM

### VEYANCE

| WATER     |
|-----------|
| Discharge |
| Suction & |
| Discharge |
| Washdown  |

### WELDING

COUPLING SYSTEMS

# SPIRAFLEX HOSE CHEMICAL RESISTANCE GUIDE

| Thermoplastic   | Hos              | е                       |                  |              |                     |
|---|------------------|-------------------------|------------------|--------------|---------------------|
| <ul> <li>A = May be used for<br/>Continuous Service</li> <li>B = May be used for<br/>Intermittent Service</li> <li>X = Do not use</li> <li>I = Insufficient data</li> </ul> | Temperature (°F) | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |
| Copper Hydroxide  | 70°              | 1                       | Α                | ı            |                     |
| Copper Nitrate  | 70°              | Α                       | Α                | Α            |                     |
| Copper Nitrite  | 70°              | Α                       | Α                | Α            |                     |
| Copper Sulfate  | 70°              | Α                       | A                | Α            | I                   |
| Copper Sulfide  | 70°              | В                       | Α                | В            |                     |
| Creosol   | 70°              | Χ                       | χ                | χ            | Χ                   |
| Creosote  | 70°              | Χ                       | χ                | χ            | X                   |
| Crude Oil   | 70°              | В                       | Α                | В            | X                   |
| Cupric Carbonate  | 70°              | 1                       | Α                | ı            | 1                   |
| Cupric Chloride   | 70°              | Α                       | Α                | ı            | 1                   |
| Cupric Nitrate  | 70°              | Α                       | Α                | ı            | I                   |
| Cupric Nitrite  | 70°              | Α                       | Α                | ı            | Τ                   |
| Cupric Sulfate  | 70°              | Α                       | Α                | Α            | Τ                   |
| Cyclohexane   | 70°              | Χ                       | χ                | χ            | Χ                   |
| Cyclohexanol  | 70°              | Χ                       | χ                | χ            | Χ                   |
| Cyclohexanone   | 70°              | Χ                       | χ                | χ            | Χ                   |
| Cyclopentane, methyl  | 70°              | 1                       | Α                | 1            | Τ                   |
| Cyclopentanol   | 70°              | 1                       | Α                | I            | ı                   |
| Cyclopentanone  | 70°              | 1                       | Α                | ı            | T                   |
| D   |                  |                         |                  |              |                     |
| D.D.T.  | 70°              | 1                       | Α                | ı            | 1                   |
| D.D.T. in Kerosene  | 70°              | χ                       | χ                | Χ            | X                   |
| Decalin   | 70°              | 1                       | В                | I            |                     |
| Decanol   | 70°              | 1                       | В                | ı            | 1                   |
| Decyl Alcohol   | 70°              | 1                       | Α                | I            |                     |
| Decyl Butyl Phthalate   | 70°              | Χ                       | Χ                | χ            | Χ                   |
| Denatured Alcohol   | 70°              | Ι                       | Α                | В            | Τ                   |
| Diacetone Alcohol   | 70°              | В                       | Α                | В            | В                   |
| Diamyl Phenol   | 70°              | χ                       | χ                | χ            | χ                   |
| Dibromobenzene  | 70°              | I                       | Χ                | I            |                     |
| Dibutyl Amine   | 70°              | I                       | χ                | I            | I                   |
| Dibutyl Phthalate   | 70°              | χ                       | Χ                | χ            | χ                   |
| Dibutyl Sebacate  | 70°              | 1                       | χ                | I            | Τ                   |

| Thermoplastic   | Hos              | е                       |                  |              |                     |
|---|------------------|-------------------------|------------------|--------------|---------------------|
| <ul> <li>A = May be used for<br/>Continuous Service</li> <li>B = May be used for<br/>Intermittent Service</li> <li>X = Do not use</li> <li>I = Insufficient data</li> </ul> | Temperature (°F) | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |
| Dicalcium Phosphate   | 70°              | В                       | Α                | В            |                     |
| Dichlorobenzene   | 70°              | X                       | χ                | Χ            | Х                   |
| Dichlorobutane  | 70°              | -                       | χ                | 1            |                     |
| Dichlorodiboromethane   | 70°              | Х                       | χ                | Χ            | X                   |
| Dichloroethane  | 70°              | -                       | χ                | 1            |                     |
| Dichloroethyl Ether   | 70°              | 1                       | χ                | 1            | Х                   |
| Dichloroethylene  | 70°              | 1                       | χ                | 1            | χ                   |
| Dichlorohexane  | 70°              | 1                       | χ                | 1            | χ                   |
| Dichloromethane   | 70°              | 1                       | χ                | 1            | χ                   |
| Dichloropentane   | 70°              | 1                       | X                | 1            | χ                   |
| Dichloropropane   | 70°              | ı                       | χ                | 1            | χ                   |
| Diesel Oil  | 70°              | 1                       | В                | χ            | χ                   |
| Diethylamine  | 70°              | 1                       | ١                | 1            | ١                   |
| Diethyl Benzene   | 70°              | 1                       | Χ                | 1            | χ                   |
| Diethyl Ketone  | 70°              | 1                       | χ                | 1            | 1                   |
| Diethyl Oxalate   | 70°              | ı                       | χ                | 1            | I                   |
| Diethyl Phthalate   | 70°              | 1                       | χ                | 1            | ١                   |
| Diethyl Sebacate  | 70°              | 1                       | χ                | 1            | ١                   |
| Diethylene Glycol   | 70°              | 1                       | В                | 1            | ١                   |
| Diisobutyl Ketone   | 70°              | 1                       | χ                | 1            | ١                   |
| Diisoctyl Adipate   | 70°              | 1                       | χ                | 1            | 1                   |
| Diisoctyl Phthalate   | 70°              | 1                       | χ                | 1            | ١                   |
| Diisodecyl Adipate  | 70°              | 1                       | χ                | 1            | ١                   |
| Diisopropyl Amine   | 70°              | -                       | χ                | I            | ١                   |
| Diisopropyl Ketone  | 70°              | -                       | χ                | 1            | I                   |
| Dimethyl Amine  | 70°              | -                       | χ                | I            | ١                   |
| Dimethyl Benzene  | 70°              | -                       | Χ                | 1            | Ι                   |
| Dimethyl Ketone   | 70°              | 1                       | χ                | 1            | I                   |
| Dimethyl Phthalate  | 70°              | 1                       | χ                | 1            | 1                   |
| Dinitrobenzene  | 70°              | Ι                       | χ                | 1            | ١                   |
| Dioctyl Adipate   | 70°              | ı                       | χ                | Ι            | ١                   |
| Dioctyl Phthalate   | 70°              | χ                       | χ                | χ            | Χ                   |
| Dioctyl Sebacate  | 70°              | Ι                       | Χ                | 1            | Ι                   |



# SPIRAFLEX HOSE CHEMICAL RESISTANCE GUIDE MULTIPURPOSE

| Thormonloctic   | . U.s            | •                       |                  |              |                     |
|---|------------------|-------------------------|------------------|--------------|---------------------|
| Thermoplastic   | OS               | е                       |                  |              |                     |
| <ul> <li>A = May be used for<br/>Continuous Service</li> <li>B = May be used for<br/>Intermittent Service</li> <li>X = Do not use</li> <li>I = Insufficient data</li> </ul> | Temperature (°F) | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |
| Diphenyl Phthalate  | 70°              | Τ                       | χ                | Ι            | T                   |
| Dipropyl Ketone   | 70°              | Τ                       | χ                | ı            | T                   |
| Disodium Phosphate  | 70°              | Α                       | Α                | Α            | В                   |
| Divinyl Benzene   | 70°              | Τ                       | χ                | ı            | T                   |
| Dodecyl Benzene   | 70°              | 1                       | χ                | 1            | I                   |
| E   |                  |                         |                  |              |                     |
| Ethanol   | 70°              | Α                       | Α                | Α            | A                   |
| Ethanol Amine   | 70°              | В                       | Α                | В            | Ι                   |
| Ethyl Acetate   | 70°              | χ                       | χ                | χ            | В                   |
| Ethyl Acetoacetate  | 70°              | ı                       | χ                | ı            | Τ                   |
| Ethyl Acrylate  | 70°              | χ                       | χ                | χ            | Τ                   |
| Ethyl Alcohol   | 70°              | Α                       | Α                | Α            | Α                   |
| Ethyl Benzene   | 70°              | Τ                       | χ                | ı            | Χ                   |
| Ethyl Butanol   | 70°              | 1                       | Α                | 1            | Ι                   |
| Ethyl Butyl Acetate   | 70°              | Ι                       | χ                | 1            | Τ                   |
| Ethyl Butyl Alcohol   | 70°              | 1                       | Α                | 1            | Ι                   |
| Ethyl Butyl Ketone  | 70°              | 1                       | χ                | 1            | Τ                   |
| Ethyl Chloride  |                  | χ                       | χ                | χ            | Χ                   |
| Ethyl Dichloride  | 70°              | χ                       | χ                | χ            | Χ                   |
| Ethyl Ether   |                  | χ                       | χ                | χ            | Χ                   |
| Ethyl Formate   | 70°              | Ι                       | χ                | I            |                     |
| Ethyl Hexyl Acetate   | 70°              | Ι                       | χ                | I            |                     |
| Ethyl Hexyl Alcohol   | 70°              | 1                       | Α                | 1            |                     |
| Ethyl lodide  | 70°              | χ                       | χ                | χ            | X                   |
| Ethyl Isobutyl Ether  | 70°              | 1                       | χ                | I            |                     |
| Ethyl Methyl Ketone   | 70°              | Χ                       | χ                | χ            | Χ                   |
| Ethyl Oxalate   | 70°              | 1                       | χ                | 1            |                     |
| Ethyl Phthalate   | 70°              | I                       | χ                | ı            |                     |
| Ethyl Propyl Ether  | 70°              | 1                       | Χ                | ı            |                     |
| Ethyl Propyl Ketone   | 70°              | χ                       | χ                | Χ            |                     |
| Ethylene Bromide  | 70°              | Χ                       | Χ                | Χ            | X                   |
| Ethylene Chloride   | 70°              | Χ                       | Χ                | Χ            | X                   |
| Ethylene Dibromide  | 70°              | X                       | X                | X            | X                   |

| Thermoplasti  | c Hos            | ie.                     |                  |              |                     |
|---|------------------|-------------------------|------------------|--------------|---------------------|
| <ul> <li>A = May be used for<br/>Continuous Service</li> <li>B = May be used for<br/>Intermittent Service</li> <li>X = Do not use</li> <li>I = Insufficient data</li> </ul> | Temperature (°F) | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |
| Ethylene Dichloride   | 70°              | χ                       | χ                | χ            | χ                   |
| Ethylene Glycol   | 70°              | Α                       | Α                | Α            | Α                   |
| F   |                  |                         |                  |              |                     |
| Ferric Bromide  | 70°              | Α                       | Α                | Α            | В                   |
| Ferric Chloride   | 70°              | Α                       | Α                | Α            | Α                   |
| Ferric Sulfate  | 70°              | Α                       | А                | А            | Α                   |
| Ferrous Acetate   | 70°              | Α                       | А                | Α            | ı                   |
| Ferrous Chloride  | 70°              | Α                       | Α                | А            | В                   |
| Ferrous Hydroxide   | 70°              | 1                       | Α                | Α            | I                   |
| Ferrous Sulfate   | 70°              | Α                       | Α                | Α            | Α                   |
| Fluorine  | 70°              | Х                       | χ                | χ            | X                   |
| Fluosilicic Acid  | 70°              | Α                       | Α                | Α            | В                   |
| Formaldehyde  | 70°              | X                       | Х                | В            | A                   |
| Formalin  | 70°              | I                       | ı                | A            | A                   |
| Formic Acid (less than 50%)   | 70°              | В                       | В                | Α            | A                   |
| Formic Acid (more than 50%)   | 70°              | В                       | Х                | χ            | В                   |
| Freon® 12   | 70°              | В                       | В                | В            | Х                   |
| Freon® 22   | 70°              | Χ                       | Х                | χ            | X                   |
| Fuel A (ASTM)   | 70°              | Α                       | В                | В            |                     |
| Fuel B (ASTM)   | 70°              | Α                       | В                | χ            | X                   |
| Fuel Oil  | 70°              | Α                       | В                | В            | X                   |
| Furfural  | 70°              | X                       | X                | X            | X                   |
| G   |                  |                         |                  |              |                     |
| Gasoline  | 70°              | Х                       | χ                | χ            | X                   |
| Glacial Acetic Acid   | 70°              | Χ                       | В                | ı            | 1                   |
| Glycerin  | 70°              | Α                       | Α                | Α            | В                   |
| Grease  | 70°              | Α                       | A                | A            | В                   |
| Н   |                  |                         |                  |              |                     |
| Heptane   | 70°              | Α                       | Α                | Χ            | X                   |
| Hexane  | 70°              | Α                       | Α                | В            | Х                   |
| Hexanol   | 70°              | В                       | Α                | В            | В                   |
| Hexyl Methyl Ketone   | 70°              | 1                       | Х                | ı            | 1                   |
| Hexylene Glycol Freon® is a registed trademark of E.I. du Pont de Nemou   | 70°              | 1                       | В                | 1            |                     |



AIR &

General Purpose Heavy Duty Push-on

> CHEMICAL **TRANSFER**

**CLEANING EQUIPMENT** 

> FOOD Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

**PETROLEUM** Aircraft Fueling Dispensing Dock

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER Suction & Washdown

WELDING

COUPLING **SYSTEMS** 

### AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

# MULTIPURPOSE SPIRAFLEX HOSE CHEMICAL RESISTANCE GUIDE

| Thermoplastic   | : Hos            | e                       |                  |              |                     |
|---|------------------|-------------------------|------------------|--------------|---------------------|
| <ul> <li>A = May be used for<br/>Continuous Service</li> <li>B = May be used for<br/>Intermittent Service</li> <li>X = Do not use</li> <li>I = Insufficient data</li> </ul> | Temperature (°F) | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |
| Hexyly-Alcohol  | 70°              | 1                       | Α                | ı            | I                   |
| Hydrobromic Acid  | 70°              | Α                       | Α                | В            | В                   |
| Hydrochloric Acid   | 70°              | Α                       | В                | Α            | Α                   |
| Hydrofluoric Acid   | 70°              | Α                       | В                | Α            | В                   |
| Hydrofluosilicic Acid   | 70°              | В                       | В                | I            | I                   |
| Hydrogen Dioxide 10%  | 70°              | 1                       | Α                | Α            | Τ                   |
| Hydrogen Dioxide (over 10%)   | 70°              | 1                       | Α                | Α            | 1                   |
| Hydrogen Gas  | 70°              | Χ                       | χ                | χ            | В                   |
| Hydrogen Peroxide 10%   | 70°              | А                       | Α                | Α            | В                   |
| Hydrogen Peroxide (over 10%)  | 70°              | Α                       | Α                | A            | В                   |
| lodine  | 70°              | Χ                       | χ                | Х            | χ                   |
| Iron Acetate  | 70°              | 1                       | Α                | I            |                     |
| Iron Hydroxide  | 70°              | 1                       | Α                | Α            | Τ                   |
| Iron Salts  | 70°              | 1                       | Α                | Α            | В                   |
| Iron Sulfate  | 70°              | 1                       | Α                | Α            | Α                   |
| Iron Sulfide  | 70°              | 1                       | Α                | I            | Τ                   |
| Isoamyl Acetate   | 70°              | 1                       | χ                | 1            | 1                   |
| Isoamyl Alcohol   | 70°              | 1                       | Α                | Ι            | T                   |
| Isoamyl Bromide   | 70°              | Χ                       | χ                | χ            | 1                   |
| Isoamyl Butyrate  | 70°              | 1                       | χ                | 1            | ı                   |
| Isoamyl Chloride  | 70°              | I                       | Х                | ı            | _                   |
| Isoamyl Ether   | 70°              | 1                       | χ                | 1            | ı                   |
| Isoamyl Phthalate   | 70°              | 1                       | χ                | 1            | 1                   |
| Isobutanol  | 70°              | 1                       | Α                | 1            | Α                   |
| Isobutyl Acetate  | 70°              | 1                       | χ                | ı            | ١                   |
| Isobutyl Alcohol  | 70°              | 1                       | Α                | ı            | Α                   |
| Isooctane   | 70°              | Ι                       | В                | Χ            | Ι                   |
| Isopentane  |                  | I                       | В                | I            | I                   |
| Isopropanol   | 70°              | I                       | Α                | I            | Α                   |
| Isopropyl Acetate   | 70°              | Χ                       | Χ                | Χ            |                     |
| Isopropyl Alcohol   | 70°              | Α                       | Α                | В            | В                   |
|   | 1                |                         |                  |              |                     |

| Thermoplastic   | : Hos            | е                       |                  |              |                     |
|---|------------------|-------------------------|------------------|--------------|---------------------|
| <ul> <li>A = May be used for<br/>Continuous Service</li> <li>B = May be used for<br/>Intermittent Service</li> <li>X = Do not use</li> <li>I = Insufficient data</li> </ul> | Temperature (°F) | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |
| Isopropyl Chloride  |                  | 1                       | χ                | 1            | 1                   |
| J   |                  |                         |                  |              |                     |
| Jet Fuels   |                  | χ                       | X                | X            | Х                   |
| K   |                  |                         |                  |              |                     |
| Kerosene  | 70°              | χ                       | В                | χ            | X                   |
| Ketones   | 70°              | χ                       | X                | X            | Х                   |
| L   |                  |                         |                  |              |                     |
| Lead Acetate  | 70°              | Α                       | Α                | Α            | В                   |
| Lead Sulfate  | 70°              | 1                       | χ                | 1            | 1                   |
| Linseed Oil   | 70°              | Α                       | Α                | Α            | Х                   |
| Lubricating Oils  | 70°              | Α                       | В                | В            | <u> </u>            |
| M   |                  |                         |                  |              |                     |
| MIBK  | 70°              | 1                       | χ                | 1            | Х                   |
| M.E.K.  | 70°              | χ                       | χ                | В            | X                   |
| Magnesium Acetate   | 70°              | 1                       | Α                | ı            | 1                   |
| Magnesium Chloride  | 70°              | Α                       | Α                | Α            | Α                   |
| Magnesium Hydrate   | 70°              | Ι                       | Α                | Α            | В                   |
| Magnesium Hydroxide   | 70°              | Α                       | Α                | Α            | Α                   |
| Magnesium Sulfate   | 70°              | Α                       | Α                | Α            | Α                   |
| Malic Acid  | 70°              | В                       | Α                | В            | В                   |
| Manganese Sulfate   | 70°              | 1                       | Α                | Ι            | 1                   |
| Manganese Sulfide   | 70°              | 1                       | Α                | ı            | I                   |
| Manganese Sulfite   | 70°              | ١                       | Α                | I            | <u> </u>            |
| Methanol  | 70°              | Α                       | Α                | Α            | Α                   |
| Methallyl Alcohol   | 70°              | ١                       | Α                | ı            | <u> </u>            |
| Methyl (Wood) Alcohol   | 70°              | В                       | В                | Α            | Α                   |
| Methyl Acetate  | 70°              | χ                       | χ                | χ            | X                   |
| Methyl Acetoacetate   | 70°              | 1                       | Χ                | 1            | <u> </u>            |
| Methyl Acetone  | 70°              | 1                       | χ                | 1            | X                   |
| Methyl Amyl Acetate   | 70°              | Χ                       | X                | χ            | Х                   |
| Methyl Amyl Alcohol   | 70°              | I                       | Α                | I            |                     |
| Methyl Amyl Ketone  | 70°              | 1                       | Χ                | Α            | <u> </u>            |
| Methyl Benzene  | 70°              | 1                       | χ                | 1            | χ                   |

**APPENDIX** 



 $X \mid I \mid X$ 

70°

Isopropyl Benzene

# SPIRAFLEX HOSE CHEMICAL RESISTANCE GUIDE MULTIPURPOSE

| Thermoplastic   | Hos                                     | е                       |                  |              |                     |
|---|---|-------------------------|------------------|--------------|---------------------|
| <ul> <li>A = May be used for<br/>Continuous Service</li> <li>B = May be used for<br/>Intermittent Service</li> <li>X = Do not use</li> <li>I = Insufficient data</li> </ul> | Temperature (°F)                        | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |
| Methyl Butanol  | 70°                                     | I                       | В                | Ι            | χ                   |
| Methyl Butyl Ketone   | 70°                                     | ı                       | χ                | ı            | Ι                   |
| Methyl Cellosolve   | 70°                                     | ı                       | В                | ı            | I                   |
| Methyl Chloride   |   | χ                       | χ                | χ            | χ                   |
| Methyl Ethyl Ketone   | 70°                                     | χ                       | χ                | χ            | χ                   |
| Methyl Hexyl Ketone   | 70°                                     | χ                       | χ                | χ            | χ                   |
| Methyl Isobutyl Ketone  | 70°                                     | χ                       | χ                | χ            | χ                   |
| Methyl Isopropyl Ketone   | 70°                                     | χ                       | χ                | χ            | χ                   |
| Methyl Normal Amyl Ketone   | 70°                                     | χ                       | χ                | χ            | χ                   |
| Methylallyl Chloride  | 70°                                     | χ                       | χ                | χ            | χ                   |
| Methyl Propyl Ether   | 70°                                     | I                       | 1                | Α            | Ι                   |
| Methyl Propyl Ketone  | 70°                                     | ı                       | χ                | -            | I                   |
| Methylallyl Acetate   | 70°                                     | 1                       | χ                | ı            | I                   |
| Methylene Bromide   | 70°                                     | χ                       | χ                | χ            | I                   |
| Methylene Chloride  |   | χ                       | χ                | χ            | χ                   |
| Mineral Spirits   | 70°                                     | ı                       | В                | -            | I                   |
| Monochlorobenzene   | 70°                                     | χ                       | χ                | χ            | χ                   |
| Monochlorodibluoromethane   | 70°                                     | 1                       | χ                | -            | I                   |
| Muriatic Acid   | 70°                                     | I                       | В                | Α            | В                   |
| N   |   |                         |                  |              |                     |
| Naphtha   | 70°                                     | В                       | В                | В            | χ                   |
| Naphthalene   | 70°                                     | В                       | χ                | В            | χ                   |
| Natural Gas   | No hose is recommended for this service |                         |                  |              |                     |
| Nickel Chloride   | 70°                                     | Α                       | Α                | Α            | В                   |
| Nickel Nitrate  | 70°                                     | Α                       | Α                | Α            | В                   |
| Nickel Sulfate  | 70°                                     | Α                       | Α                | Α            | Α                   |
| Nitric Acid 10%   | 70°                                     | Α                       | Α                | Α            | В                   |
| Nitric Acid 20%   | 70°                                     | Α                       | В                | Α            | В                   |
| Nitric Acid 30%   | 70°                                     | В                       | В                | Α            | В                   |
| Nitric Acid 30-70%  | 70°                                     | χ                       | χ                | χ            | χ                   |
| Nitro Benzene   | 70°                                     | Χ                       | χ                | Χ            | X                   |
| Nitrogen Gas  | 70°                                     | Α                       | Α                | Α            | Α                   |
| Nitrous Oxide   | 70°                                     | Α                       | Α                | Α            | В                   |

| Thermoplastic                              | : Hos            | e                       |                  |              |                     | General Purpose       |
|--|------------------|-------------------------|------------------|--------------|---------------------|-----------------------|
| A = May be used for                        |                  |                         |                  |              |                     | Heavy Duty<br>Push-on |
| Continuous Service                         |                  | ane                     |                  |              | L.                  | 1 4311 011            |
| <b>B</b> = May be used for                 | (F)              | pirat                   | SI               |              | rnet )              | CHEMICAL              |
| Intermittent Service <b>X</b> = Do not use | ture             | ane/S                   | ric PI           | SW S         | n Ho                | TRANSFER              |
| I = Insufficient data                      | Temperature (°F) | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |                       |
| 0  | Tel.             | Poly                    | PVC              | IPE.         | TPR                 | CLEANING<br>EQUIPMENT |
| Octanol                                    | 70°              | 1                       | Α                | ı            | В                   | EQUIFIVIENT           |
| Octyl Acetate                              | 70°              | 1                       | χ                | ı            | ı                   | FOOD                  |
| Oil Petroleum                              | 70°              | Α                       | В                | Α            | Ι                   | Transfer              |
| Oleic Acid                                 | 70°              | В                       | В                | В            | В                   | Washdown              |
| Oleum                                      | 70°              | χ                       | χ                | χ            | χ                   | MARINE                |
| Orthodichlorobenzene                       | 70°              | 1                       | χ                | I            | ı                   | IVIANINL              |
| Orthodichlorobenzol                        | 70°              | 1                       | χ                | 1            | Ι                   | MATERIAL              |
| Oxalic Acid                                | 70°              | Α                       | Α                | Α            | Α                   | HANDLING              |
| Oxygen                                     | No h             | ose is<br>for thi       | recom<br>s servi | mende<br>ice | ed                  | Abrasives             |
| Ozone                                      | 70°              | В                       | В                | В            | В                   | Bulk Transfer         |
| P  |                  |                         |                  |              |                     | Cement & Concrete     |
| Palmitic Acid                              | 70°              | В                       | В                | В            | В                   | MINING                |
| Papermakers Alum                           | 70°              | I                       | Α                | I            | 1                   |                       |
| Paradichlorobenzol                         | 70°              | I                       | χ                | I            | Ι                   | PETROLEUM             |
| Paraffin                                   | 70°              | В                       | Α                | В            | 1                   | Aircraft Fueling      |
| Pentachloroethane                          | 70°              | 1                       | 1                | χ            | 1                   | Dispensing Dock       |
| Pentane                                    | 70°              | В                       | В                | 1            | χ                   | Transfer              |
| Pentanol                                   | 70°              | 1                       | Α                | 1            | Ι                   | Transier              |
| Perchloroethylene                          | 70°              | χ                       | χ                | χ            | χ                   | SPRAY                 |
| Petroleum Ether (Ligroin)                  | 70°              | Α                       | В                | I            | χ                   |                       |
| Petroleum - Crude                          | 70°              | Α                       | В                | Χ            | Χ                   | STEAM                 |
| Petroleum Oils                             | 70°              | Α                       | В                | χ            | χ                   | VACUUM                |
| Phenol                                     | 70°              | Χ                       | χ                | χ            | χ                   |                       |
| Phenolsulfonic Acid                        | 70°              | 1                       | χ                | 1            | 1                   | VEYANCE               |
| Phenyl Chloride                            | 70°              | 1                       | ı                | Χ            | Χ                   | \\\\\                 |
| Phosphoric Acid 10%                        | 70°              | Α                       | Α                | Α            | Α                   | WATER                 |
| Phosphoric Acid 10%-85%                    | 70°              | В                       | В                | Α            | В                   | Discharge Suction &   |
| Polyethylene Glycol                        | 70°              | В                       | В                | Α            | В                   | Discharge             |
| Polypropylene Glycol                       | 70°              | В                       | В                | Α            | В                   | Washdown              |
| Potassium Acetate                          | 70°              | I                       | Α                | Α            | В                   |                       |
| Potassium Bisulfate                        | 70°              | Α                       | Α                | Α            | В                   | WELDING               |
| Potassium Bisulfite                        | 70°              | Α                       | Α                | Α            | В                   | COUPLING              |
| Potassium Carbonate                        | 70°              | Α                       | Α                | Α            | Α                   | SYSTEMS               |
|  |                  |                         |                  |              |                     | 010121110             |

AIR &



# AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

### CHEMICAL TRANSFER

### CLEANING EQUIPMENT

### FOOD Transfer Washdown

### MARINE

### MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

### MINING

### PETROLEUM Aircraft Fueling Dispensing Dock Transfer

### SPRAY

### STEAM

### VACUUM

### **VEYANCE**

| WATER     |
|-----------|
| Discharge |
| Suction & |
| Discharge |
| Machdown  |

### WELDING

### COUPLING SYSTEMS

# SPIRAFLEX HOSE CHEMICAL RESISTANCE GUIDE

| Thermoplast   | ic H             | ose                     |                  |              |                     |
|---|------------------|-------------------------|------------------|--------------|---------------------|
| <ul> <li>A = May be used for<br/>Continuous Service</li> <li>B = May be used for<br/>Intermittent Service</li> <li>X = Do not use</li> <li>I = Insufficient data</li> </ul> | Tomnerature (°E) | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |
| Potassium Chloride  | 70               | )° A                    | Α                | Α            | Α                   |
| Potassium Chromate  | 70               | )° A                    | Α                | Α            | В                   |
| Potassium Dichromate  | 70               | )° A                    | Α                | Α            | В                   |
| Potassium Hydrate   | 70               | )° I                    | Α                | I            | В                   |
| Potassium Hydroxide   | 70               | )° B                    | Α                | Α            | В                   |
| Potassium Nitrate   | 70               | )° A                    | Α                | Α            | В                   |
| Potassium Silicate  | 70               | )° I                    | Α                | I            | В                   |
| Potassium Sulfate   | 70               | )° A                    | Α                | Α            | В                   |
| Potassium Sulfide   | 70               | )° A                    | Α                | Α            | В                   |
| Potassium Sulfite   | 70               | )° A                    | Α                | Α            | В                   |
| Propanediol   | 70               | )°                      | Α                | I            | В                   |
| Propanol  | 70               | )°                      | Α                | 1            | В                   |
| Propyl Acetate  | 70               | )°                      | Х                | 1            | Τ                   |
| Propyl Alcohol  | 70               | )° A                    | Α                | В            | В                   |
| Propyl Chloride   |                  | - X                     | Х                | Х            | χ                   |
| Propylene Dichloride  | 70               | )° X                    | Х                | Х            | χ                   |
| Propylene Glycol  | 70               | )° A                    | П                | Α            | Α                   |
| S   |                  | •                       |                  | •            |                     |
| Sea Water   | 70               | )° A                    | Α                | Α            | Α                   |
| Silicate of Soda  | 70               | )°                      | В                | Α            | Α                   |
| Soda Ash  | 70               | )° A                    | Α                | Α            | Α                   |
| Soda, Caustic   | 70               | )° A                    | В                | Α            | Α                   |
| Soda, Lime  | 70               | )°                      | В                | Α            | Т                   |
| Soda, Niter   | 70               | )°                      | В                | I            | Α                   |
| Sodium Acetate  | 70               | )° A                    | В                | Α            | В                   |
| Sodium Aluminate  | 70               | )°                      | Α                | Α            | В                   |
| Sodium Bisulfate  | 70               | )° A                    | Α                | Α            | Α                   |
| Sodium Bisulfite  | 70               | )°                      | А                | Α            | Α                   |
| Sodium Carbonate  | 70               | )° A                    | Α                | Α            | Α                   |
| Sodium Chloride (brine)   | 70               | )° A                    | А                | Α            | Α                   |
| Sodium Chromate   | 70               | )°                      | Α                | I            | Т                   |
| Sodium Dichromate   | 70               | )° A                    | А                | Α            | В                   |
| Sodium Hydrate  | 70               | )°                      | Α                | ı            | Τ                   |

| Thermoplastic   | : Hos            | е                       |                  |              |                     |
|---|------------------|-------------------------|------------------|--------------|---------------------|
| <ul> <li>A = May be used for<br/>Continuous Service</li> <li>B = May be used for<br/>Intermittent Service</li> <li>X = Do not use</li> <li>I = Insufficient data</li> </ul> | Temperature (°F) | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |
| Sodium Hydrochlorite  | 70°              | Α                       | Α                | В            | В                   |
| Sodium Hydroxide  | 70°              | Α                       | Α                | Α            | A                   |
| Sodium Hypochlorite   | 70°              | Α                       | Α                | Α            | A                   |
| Sodium Nitrate  | 70°              | Α                       | Α                | Α            | A                   |
| Sodium Silicate   | 70°              | Α                       | Α                | Α            | Α                   |
| Sodium Sulfate  | 70°              | Α                       | Α                | Α            | A                   |
| Sodium Sulfide  | 70°              | Α                       | Α                | Α            | Α                   |
| Sodium Sulfite  | 70°              | Α                       | Α                | Α            | A                   |
| Sodium Thiosulfate  | 70°              | Α                       | Α                | Α            | A                   |
| Stannic Chloride  | 70°              | Α                       | Α                | Α            | В                   |
| Stannic Sulfide   | 70°              | 1                       | Α                | 1            | ١                   |
| Stannous Chloride   | 70°              | 1                       | Α                | 1            | 1                   |
| Stannous Sulfide  | 70°              | 1                       | Α                | 1            |                     |
| Stearic Acid  | 70°              | Α                       | Α                | Α            | Α                   |
| Sulfonic Acid   | 70°              | 1                       | В                | 1            |                     |
| Sulfur Dioxide (Liquid)   | 70°              | Χ                       | χ                | χ            | X                   |
| Sulfuric Acid (Dry)   | 70°              | Α                       | Α                | Α            | Α                   |
| Sulfuric Acid 25%   | 70°              | Α                       | Α                | Α            | Α                   |
| Sulfuric Acid 25-50%  | 70°              | Α                       | Α                | Α            | Α                   |
| Sulfuric Acid 50-96%  | 70°              | χ                       | χ                | В            | В                   |
| Sulfuric Acid Fuming  | 70°              | χ                       | χ                | χ            | χ                   |
| Sulfurous Acid 10%  | 70°              | В                       | В                | В            | A                   |
| Sulfurous Acid 10-75%   | 70°              | χ                       | χ                | χ            | χ                   |
| Ī   |                  |                         |                  |              |                     |
| Tannic Acid   | 70°              | В                       | В                | В            | Α                   |
| Tar   |                  | Ι                       | χ                | Ι            | ı                   |
| Tartaric Acid   | 70°              | Α                       | Α                | Α            | Α                   |
| Tertiary Butyl Alcohol  | 70°              | В                       | В                | В            | ı                   |
| Tetrachlorobenzene  | 70°              | Ι                       | χ                | I            | ı                   |
| Tetrachloroethane   | 70°              | 1                       | χ                | Χ            | χ                   |
| Tetrachloroethylene   | 70°              | 1                       | χ                | χ            | χ                   |
| Tetraethylene Glycol  | 70°              | ı                       | В                | I            | ı                   |
| Tetrachloromethane  | 70°              | Ι                       | χ                | Ι            | χ                   |



# SPIRAFLEX HOSE CHEMICAL RESISTANCE GUIDE MULTIPURPOSE

| Thermoplastic   | Hos              | е                       |                  |              |                     |
|---|------------------|-------------------------|------------------|--------------|---------------------|
| <ul> <li>A = May be used for<br/>Continuous Service</li> <li>B = May be used for<br/>Intermittent Service</li> <li>X = Do not use</li> <li>I = Insufficient data</li> </ul> | Temperature (°F) | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |
| Tetrachloronaphthalene  | 70°              | 1                       | χ                | I            | X                   |
| Tetrahydrofuran   | 70°              | χ                       | χ                | χ            | X                   |
| Tin Chloride  | 70°              | В                       | В                | В            | В                   |
| Tin Tetrachloride   | 70°              | В                       | В                | В            | В                   |
| THF   | 70°              | 1                       | χ                | ı            | χ                   |
| Toluene   | 70°              | χ                       | χ                | χ            | Χ                   |
| Toluidine   | 70°              | I                       | χ                | ı            | I                   |
| Toluol  | 70°              | χ                       | χ                | χ            | χ                   |
| Transmission Oil "A"  | 70°              | Α                       | В                | ı            | I                   |
| Tributyl Phosphate  | 70°              | χ                       | χ                | χ            | χ                   |
| Trichlorobenzene  | 70°              | χ                       | χ                | χ            | χ                   |
| Trichloroethane   | 70°              | 1                       | χ                | χ            | χ                   |
| Trichloroethylene   | 70°              | χ                       | χ                | χ            | χ                   |
| Trichloropropane  | 70°              | I                       |                  | χ            | χ                   |
| Triethanolamine   | 70°              | В                       | В                | В            | Ι                   |
| Triethylene Glycol  | 70°              | I                       | В                | ı            | В                   |
| Triphenyl Phosphate   | 70°              | В                       | χ                | ı            | I                   |
| Trisodium Phosphate   | 70°              | В                       | В                | Α            | Α                   |
| Turpentine  | 70°              | В                       | В                | Α            | Χ                   |

| Thermoplastic   | Hos              | е                       |                  |              |                     |
|---|------------------|-------------------------|------------------|--------------|---------------------|
| <ul> <li>A = May be used for<br/>Continuous Service</li> <li>B = May be used for<br/>Intermittent Service</li> <li>X = Do not use</li> <li>I = Insufficient data</li> </ul> | Temperature (°F) | Polyurethane/Spirathane | PVC/Pliovic Plus | TPE/Arvac SW | TPR/Green Hornet XF |
| Urea  | 70°              | Α                       | Α                | Α            | Α                   |
| Undecanol   | 70°              | I                       | Α                | I            | I                   |
| V   |                  |                         |                  |              |                     |
| V.M. & P. Naptha  | 70°              | I                       | В                | ı            | I                   |
| Vinyl Acetate   | 70°              | 1                       | χ                | 1            | χ                   |
| Vinyl Benzene   | 70°              | I                       | χ                | I            | χ                   |
| Vinyl Chloride  |                  | χ                       | χ                | χ            | χ                   |
| W   |                  |                         |                  |              |                     |
| Water   | 70°              | Α                       | Α                | Α            | Α                   |
| Wood Alcohol  | 70°              | В                       | В                | В            | Α                   |
| Χ   |                  |                         |                  |              |                     |
| Xylene (Xylol)  | 70°              | χ                       | χ                | Χ            | χ                   |
| Xylidine  | 70°              | ı                       | χ                | I            | I                   |
| Z   |                  |                         |                  |              |                     |
| Zinc Carbonate  | 70°              | ı                       | Α                | Α            | В                   |
| Zinc Chloride   | 70°              | Α                       | Α                | Α            | В                   |
| Zinc Chromate   | 70°              | Α                       | Α                | Α            | I                   |
| Zinc Sulfate  | 70°              | Α                       | Α                | Α            | В                   |

AIR &

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> > MARINE

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Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock

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STEAM

VACUUM

**VEYANCE** 

WATER Suction & Washdown

WELDING

COUPLING SYSTEMS



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# GENERAL INFORMATION

### CHEMICAL PROPERTIES OF FLUROETHYLENEPROPYLENE (FEP)

### AS STATED BY E.I. DU PONT DE NEMOURS

FEP fluorocarbon resins are attacked by certain halogenated complexes containing fluorine including: chlorine trifluoride, bromine trifluoride, iodine pentafluoride and fluorine itself.

FEP is also attacked by such metals as sodium or potassium, especially in their molten states. Great care should be used when mixing finely divided fluorocarbon polymers with finely divided metals, such as aluminum, magnesium or barium, since these can react violently if ignited or heated to a high temperature. Certain complexes of these metals with ammonia or naphthalene (in either solvent) also attack the products. Certain metal hydrides such as boranes, aluminum chloride and certain amines have also been observed to attack fluorocarbon resins at elevated temperatures.

The following materials are inert to FEP:

Alcohols
Aliphatic Hydrocarbons

Aromatics Esters

Fluorocarbons

Inorganic Oxidizing Agents

Organic Acids

Strong Mineral Acids

Aldehydes Anhydrides Chlorocarbons

Ethers

Inorganic Bases

Ketones Salt Solutions

FEP is a registered trademark with E.I. du Pont de Nemours.

# METHOD FOR STEAM CLEANING GOODYEAR ENGINEERED PRODUCTS (CHEM ONE, VIPER, FABCHEM AND FABCHEM ARC)

### **5 IMPORTANT REQUIREMENTS**

- 1) Hose must be **open-ended** during steam cleaning.
- 2) Temperature of Steam-Maximum 288°F.
- 3) Length of Cleaning Time-5 to 10 minutes...Not more than 15 minutes.
- 4) Care must be taken **not to score** the tube (liner) with the nozzle or wand end.
- 5) Prolonged steam jet contact on a specific area of the tube (liner) could cause tube damage.



# GENERAL INFORMATION

### INFINITY™/ PALADIN® DROP HOSE COUPLING PROCEDURE

### WITH INSTA-LOCK™ FITTINGS

To make an Electrically Continuous (EC) assembly, the static wire must be terminated to the couplings as the static dissipating property of the tube alone is not sufficient to meet NAHAD¹ or RMA² specifications.

### Infinity™

Locate and pull on the static wire between the fabric plies, bend approximately one inch of the static wire under the tube to make contact with the coupling stem. Grounding staple is also an acceptable method.

### Paladin®

Locate the static wire between the fabric plies. Insert one leg of a grounding staple in the middle of the wire. Ensure that the other leg of the grounding staple is in contact with the coupling stem.

### ATTACHMENT OPTIONS:

**Crimp Sleeve**—Refer to the Goodyear Engineered Products Crimp Assembly Manual for crimp specifications. Current Crimp Sleeve options are listed on page 261 of this catalog. The use of PVC banding coil is not required with crimp sleeve.

**Band Clamps**–PVC Banding Coils are required when using this method of attachment. Order the appropriate Banding Coil to match your hose selection. Follow the procedures below when using the Banding Coils:

- 1. Insert stem inside hose end.
- 2. Apply sufficient banding coil in between the hose outer PVC helix to insure complete coverage under the band clamps position.
- **3.** Place the banding coil tightly around the hose to properly fill the cover depressions. Clamp the first band, re-tighten the banding coil and clamp the second band.
- **4.** Please refer to the NAHAD guidelines for detailed instructions.

### **Banding coil selection**

- For 2" I.D. hose use 2" I.D. banding coil.
- For 3" I.D. hose use 3" I.D. banding coil.
- For 4" I.D. hose use 4" I.D. banding coil.

<sup>1</sup>NAHAD (National Association of Hose and Accessories Distributors)

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<sup>&</sup>lt;sup>2</sup> RMA (Rubber Manufacturers Association)

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**STEAM** 

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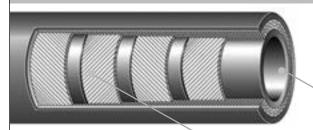
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# GENERAL INFORMATION

### **BASIC HOSE CONSTRUCTION**



**COVER** The cover is the outermost or visible area of the hose. It is designed to be a protective covering against wear, abrasion, cuts, weather, and the general destructive action encountered in normal service.

**BODY or CARCASS** The body reinforcement is the supporting structure of the hose. It can range from simple to complex combinations and consists of cord, yarn, fabric, wire, or any combination of these.

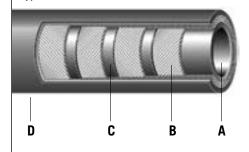
TUBE OR LINING The tube is the inner-most element of a hose and is compounded to provide resistance to the material being carried. With the wide range of rubber compounds available, a hose can be built to withstand abrasive materials, chemicals, oil and a wide variety of other materials.

### THE FOUR BASIC METHODS OF HOSE CONSTRUCTION

Although we make more than 2,000 types of hose for specialized applications, there are only four basic construction methods used. Since each of these four methods embodies certain fundamental characteristics that make it particularly suitable for certain functions, an understanding of these methods may assist you in making the best use of this catalog. Keep in mind that a reference to any one of these types of construction will imply all the characteristics and benefits outlined here plus specific features attained through the proper compounding of rubber, choice materials, and variation in plies and thickness to ensure that each hose is exactly right for the job for which it is designed.

# Type 1 D C B A

Type 2



**TYPE 1**: Vertical Braided Hose Entire hose length cured in one operation.

- A. Extruded seamless tube.
- B. Seamless reinforcing braids of synthetic textile wire, or other material applied by high speed vertical or horizontal braiders.
- C. Rubber layers between braids establish positive bond between braids when vulcanized.
- D. Extruded, seamless cover.

### TYPE 2: Spiral Hose

Built by machine with either textile or wire cord reinforcement applied so that each ply is laid at a given angle for maximum dimensional stability.

- A. Extruded or calendered tube.
- B. Reinforcement of synthetic textile wire or other material.
- C. Rubber layers between reinforcement plies to establish positive bond.
- D. Cover.

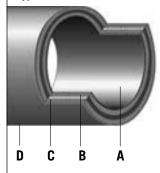


# GENERAL INFORMATION

### **BASIC HOSE CONSTRUCTION**

### THE FOUR BASIC METHODS OF HOSE CONSTRUCTION (continued)

Type 3

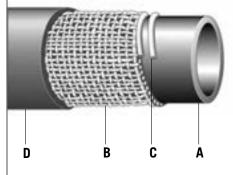


**TYPE 3**: Hand-built Spiral-plied Hose

Built by hand on a mandrel. Cured under pressure applied from outside by cloth wraps and steam.

- A. Calendered, or "built-up" tube to fit service.
- B. Tailor-made spiral-wrapped fabric.
- C. Wire reinforcement where needed.
- D. Cover stock of selected gauge and compound. Wrap cured.

Type 4



TYPE 4: Knitted Hose

- A. Extruded seamless tube.
- B. Seamless woven textile jacket.
- C. Interwoven wire helix reinforcement where needed.
- D. Extruded seamless cover.

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### **ADVANTAGES**

### **TYPE 1 Braided Hose**

Flexible. High resistance to kinking. Cover either smooth or wrapped. Available in long continuous lengths. Excellent tensile strength.

### **TYPE 2 Spiral Hose**

Extremely flexible. Smooth bore, uniform tube. High strength with long length capability.

### TYPE 3 Hand-Built Spiral-Plied Hose

Craftsman-built to special requirements. Wide variation in sizes, constructions and materials. Built-in strength to fit most rugged job requirements. Couplings, fittings, nipples, flanges and beaded ends can be built in. Available in lengths up to 50 feet, in sizes up to 18 inches. On larger diameters, consult your Goodyear Engineered Products representative.

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# GENERAL INFORMATION

### **DEFINITIONS OF HOSE ENDS**



### **PLAIN END**

All hose construction elements (including wire, if wire is used as a reinforcing member) are exposed. The hose always has the same inside diameter throughout. In the case of certain hand-built specifications having wire reinforcement, the wire and fabric reinforcement are not exposed.

All vertical spiral hose is available only with plain ends.

Horizontal spiral and wrapped ply machine-built hose is furnished with plain ends unless otherwise specified in the pricebook.





### **BUILT-IN NIPPLE END**

The hose end is integrally built around and bonded to the nipple body. The hose reinforcing materials are also anchored to the nipple.

The nipples used are generally fabricated from pipe. Nipples made from standard

pipe will be full bore only when pipe 12" and under is used since nominal pipe sizes over 12" are described by **pipe 0D and not ID.** 

Available only in hand-built hose constructions.





### **SWAGED END**

Primarily used on petroleum OS&D dock hose as an alternative to built-in nipples.

The steel (carbon or stainless) stem/coupling accommodates threaded, slip-on or welded flanged ends.
Stem/coupling attached to hose with swaged steel ferrule over the cover.





### **ENLARGED END**

The hose end is enlarged to accommodate the outside diameter of the shank of a fitting plus the depth of the shank. The helical wire is terminated at the enlarged end.

The inside diameter of a "standard" enlarged end is the same dimension as the outside

diameter of the same nominal pipe size. (Example-6" ID hose enlarged to 6%" at the end, handles a 6" size pipe which has a 6%" OD.)

Normally used in hand-built hose constructions.





# GENERAL INFORMATION

### **DEFINITIONS OF HOSE ENDS**



### INTEGRAL RUBBER TAPERED NOZZLE END

The inside diameter and the outside diameter of the hose end are gradually tapered down to form a nozzle. The hose reinforcement is also extended to the end of the nozzle.

A rubber end cap is then added to protect the reinforcement and properly shape the nozzle.

This type of nozzle is available only in non-wire inserted horizontal spiral and wrapped ply machine-built hose.



### **RUBBER BEADED END**

A flared bell shape, molded as an integral part of the hose. The reinforcing fabric of the hose body is extended beyond the straight portion of the hose and anchored around a circular steel reinforcing ring.

A reattachable split malleable iron flange is placed behind the rubber bead to act as a metal bearing surface for bolt heads and nuts. Bolts used to connect mating flanges pass over the outside diameter of the beaded end.

Normally used in hand-built hose constructions.



### INTEGRAL RUBBER FLANGED END

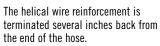
Shaped similar to a metal pipe flange. It is molded as an integral part of the hose with the tube, fabric reinforcement (not wire) and cover extending to the outside diameter of the rubber flange.

The rubber flange has holes to match customer requirements. In addition, solid metal "backup" rings (drilled to match the rubber flange holes) are always placed behind the rubber flange to provide a metal bearing surface for bolt heads and nuts.

Available only in hand-built hose constructions.



### SOFT END



When a hose has either a corrugated cover or tube or both, a soft end is generally used and always has a smooth inside diameter and outside diameter.

Normally used in hand-built hose constructions.



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# GENERAL INFORMATION

### **HOSE TESTING METHODS**

Reprinted from RMA hose handbook IP-2 2003

### **SAFETY WARNING:**

Testing can be dangerous and should be done only by trained personnel using proper tools and procedures. Failure to follow such procedures might result in damage to property and/or serious bodily injury.

The Rubber Manufacturers Association (RMA) recognizes, accepts and recommends the testing methods of the American Society for Testing and Materials (ASTM).

Unless otherwise specified, all hose tests are to be conducted in accordance with ASTM Method No. D-380 (latest revision). Where an ASTM D-380 test is not available, another test method should be selected and described in detail.

RMA participates with ASTM under the auspices of the American National Standards Institute (ANSI) in Technical Committee 45 (TC45) of The International Organization for Standardization (ISO) in developing both hose product and hose test method standards. Many of the hose test method standards published by ISO duplicate or closely parallel those shown in ASTM D-380. Many are unique and, in those cases, the RMA may be able to provide the necessary test standard references which may be purchased from the American National Standards Institute (ANSI).

### **HYDROSTATIC PRESSURE TESTS**

### HYDROSTATIC PRESSURE TESTS ARE CLASSIFIED AS FOLLOWS:

### 1. DESTRUCTIVE TYPE

a. Burst test

b. Hold test

### **Destructive Tests**

Destructive tests are conducted on short specimens of hose, normally 18 inches (460 mm) to 36 inches (915 mm) in length and, as the name implies, the hose is destroyed in the performance of the test.

- **a.** Burst pressure is recorded as the pressure at which actual rupture of a hose occurs.
- b. A hold test, when required, is a means of determining whether weakness will develop under a given pressure for a specified period of time.

### 2. NON-DESTRUCTIVE TYPE

a. Proof pressure test

**b.** Change in length test (elongation or contraction)

**c.** Change in outside diameter

or circumference test **d.** Warp test

e. Rise testf. Twist testg. Kink test

h. Volumetric expansion test

### Non-Destructive Tests

Non-destructive tests are conducted on a full length of a hose or hose assembly. These tests are for the purpose of eliminating hose with defects which cannot be seen by visual examination or in order to determine certain characteristics of the hose while it is under internal pressure.

- **a.** A proof pressure test is normally applied to hose for a specified period of time. On new hose, the proof pressure is usually 50% of the minimum specified burst except for woven jacket fire hose where the proof pressure is twice the service test pressure marked on the hose (67% of specified minimum burst). Hydrostatic tests performed on fire hose in service should be no higher than the service test pressure referred to above. The regulation of these pressures is extremely important so that no deteriorating stresses will be applied, thus weakening a normal hose.
- b. With some type of hose, it is useful to know how a hose will act under pressure. All change in length tests, except when performed on wire braid or wire spiralled hose, are made with original length measurements taken under a pressure of 10 psi (0.069 MPa). The specified pressure, which is normally the proof pressure, is applied and immediate measurement of the characteristics desired are taken and recorded.



# GENERAL INFORMATION

### **HOSE TESTING METHODS**

### **HYDROSTATIC PRESSURE TESTS** (continued):

Percent length change (elongation or contraction) is the difference between the length at 10 psi (0.069 MPa) (except wire braided or wire spiralled) and that at the proof pressure times 100 divided by the length at 10 psi (0.069 MPa). Elongation occurs if the length of the hose under the proof pressure is greater than at a pressure of 10 psi (0.069 MPa). Contraction occurs if the length at the proof pressure is less than at 10 psi (0.069 MPa). In testing wire braided or spiralled hose, the proof pressure is applied and the length recorded. The pressure is then released and, at the end of 30 seconds, the length is measured; the measurement obtained is termed the "original length."

- c. Percent change in outside diameter or circumference is the difference between the outside diameter or circumference at 10 psi (0.069 MPa) and that obtained under the proof pressure times 100 divided by the outside diameter or circumference at 10 psi (0.069 MPa). Expansion occurs if the measurement at the proof pressure is greater than at 10 psi (0.069 MPa). Contraction occurs if the measurement at the proof pressure is less than at 10 psi (0.069 MPa).
- d. Warp is the deviation from a straight line drawn from fitting to fitting; the maximum deviation from this line is warp. First, a measurement is taken at 10 psi (0.069 MPa) and then again at the proof pressure. The difference between the two, in inches, is the warp. Normally this is a feature measured on woven jacket fire hose only.
- **e.** Rise is a measure of the height a hose rises from the surface of the test table while under pressure. The difference between the rise at 10 psi (0.069 MPa) and at the proof pressure is reported to the nearest 0.25 inch (6.4 mm). Normally, this is a feature measured on woven jacket fire hose only.
- f. Twist is a rotation of the free end of the hose while under pressure. A first reading is taken at 10 psi (0.069 MPa) and a second reading at proof pressure. The difference, in degrees, between the 10 psi (0.069 MPa) base and that at the proof pressure is the twist. Twist is reported as right twist (to tighten couplings) or left twist. Standing at the pressure inlet and looking toward the free end of a hose, a clockwise turning is right twist and counterclockwise is left twist.
- g. Kink test is a measure of the ability of woven jacket hose to withstand a momentary pressure while the hose is bent back sharply on itself at a point approximately 18 inches (457 mm) from one end. Test is made at pressures ranging from 62% of the proof pressure on sizes 3 inches (76 mm) and 3.5 inches (89 mm) to 87% on sizes under 3 inches (76 mm). This is a test applied to woven jacket fire hose only.
- **h.** Volumetric expansion test is applicable only to specific types of hose, such as hydraulic or power steering hose, and is a measure of its volumetric expansion under ranges of internal pressure.

### **DESIGN CONSIDERATIONS**

In designing hose, it is customary to develop a design ratio, which is a ratio between the minimum burst and the maximum working pressure.

Burst test data is compiled and the minimum value is established by accepted statistical techniques. This is done as a check on theoretical calculations, based on the strength of reinforcing materials and on the characteristics of the method of fabrication.

Minimum burst values are used as one factor in the establishment of a reasonable and safe maximum working pressure.

# MAXIMUM WORKING PRESSURE IS ONE OF THE ESSENTIAL OPERATING CHARACTERISTICS THAT A HOSE USER MUST KNOW AND RESPECT TO ASSURE SATISFACTORY SERVICE AND OPTIMUM LIFE.

It should be noted that design ratios are dependent on more than the minimum burst. The hose technologist must anticipate natural decay in strength of reinforcing materials, and the accelerated decay induced by the anticipated environments in which the hose will be used and the dynamic situations that a hose might likely encounter in service.

Including all considerations, the following recommended design ratios are given for newly manufactured hose:

- 1. Water hose up to 150 psi WP: 3:1
- 2. Hose for all other liquids, solid materials suspended in liquids or air, and water hose over 150 psi WP: 4:1
- 3. Hose for compressed air and other gases: 4:1
- 4. Hose for liquid media that immediately changes into gas under standard atmospheric conditions: 5:1
- 5. Steam hose: 10:1

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Heavy Duty
Push-on

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CLEANING EQUIPMENT

> FOOD Transfer Nashdown

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MINING

PETROLEUM Aircraft Fueling Dispensing Dock

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
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Washdown

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APPENDIX

# GENERAL INFORMATION

### **ELECTRICAL RESISTANCE TESTS**

### FOR HOSE AND HOSE ASSEMBLIES

### 1.0 Purpose:

This procedure specifies methods for performing electrical resistance tests on rubber and/or plastic hose and hose assemblies.

### 2.0 Scope:

These procedures are intended to test electrical conductive, antistatic and nonconductive (insulating) hoses, along with electrical continuity or discontinuity between fittings.

### **WARNING:**

Hydraulic hoses used on power and telephone mobile equipment should be tested to SAE 100R8 requirements.

### 3.0 Definitions:

- 3.1 Antistatic Hose Antistatic hose constructions are those that are capable of dissipating the static electricity buildup that occurs during the high velocity flow of material through a hose.
- 3.2 Conductive Hose Conductive hose constructions are those that are capable of conducting an electrical current.
- 3.3 Direct Current (DC): Flow of electrical current in one direction at a constant rate.
- 3.4 Electrical Conductivity: A measure of the ease with which a material is capable of conducting an electrical current. Conductivity = 1/Resistance.
- 3.5 Electrical Resistance: Property of an object to resist or oppose the flow of an electrical current.
- 3.6 Non-Conductive (Insulating) Hose: Non-conductive hose constructions are those that resist the flow of electrical current.
- 3.7 Ohm's Law: The electrical current, I, is equal to the applied voltage, V, divided by the resistance, R. In practical terms, the higher the electrical resistance at a constant voltage, the lower the electrical current flow through an object.
- 3.8 Ohm: The amount of resistance that limits the passage of current to one ampere when a voltage of one volt is applied to it.

### 4.0 Apparatus:

4.1 Test Instruments: All test instruments shall have a gauge reliability and reproducibility (R&R) of less than 30%. Some instruments made to measure high electrical resistance may have an internal protection circuit built in which will cause test errors in the less than one megohm range.

During the test, no more than 3 watts (W) shall be dissipated in the specimen, to prevent erroneous results due to effects of temperature. The power dissipated shall be determined by the square of the open-circuit voltage divided by the measured resistance, see formula 1 (Power Dissipation).

To determine the electrical resistance of non-conductive hose, the test should be made with an instrument designed specifically for measuring insulation resistance, having a nominal open-circuit voltage of 500 Volts D.C., or with any other instrument known to give comparable results. For measuring electrical discontinuity, a 1,000 Volt D.C. source may be used instead of a 500 Volt D.C. source.

For hoses with a conductive tube or cover, the resistance values obtained may vary with the applied voltage, and errors may occur at low-test voltages. As a starting point, an ohmmeter (9 volts) can be used. For tests requiring measurement of electrical continuity between end fittings or through continuous internal or external bonded wires, the instrument used shall be an ohmmeter (9 volts).

4.2 Electrodes and Contacts: When the test procedure calls for contact with the hose cover, electrodes shall be formed around the outer circumference of the hose as bands 25 mm + 2 mm, 0 mm (1" + 1/16", 0") wide by applying silver lacquer/conductive liquid and metallic copper foil tape (i.e. 3M Scotch Brand) as shown in Figure 6-1. When a conductive silver lacquer (i.e. Colloidal Silver Liquid is available from Ted Pella, Inc. catalogue # 16031) is used, the surface resistance between any two points on a sample of the dried film shall not exceed  $100 \Omega$ . When a conductive liquid is



# GENERAL INFORMATION

### **ELECTRICAL RESISTANCE TESTS**

### FOR HOSE AND HOSE ASSEMBLIES (continued)

used the electrode contact area shall be completely wetted and shall remain so until the end of the test. The conductive liquid shall consist of:

- Anhydrous polyethylene glycol of relative molecular mass 600: 800 parts by mass
- Water: 200 parts by mass
- Wetting agent: 1 part by mass
- Potassium Chloride: 10 parts by mass

When the test procedure calls for contact with the hose tube, it is preferable to use a copper plug of external diameter equal to or slightly greater than the hose ID or a steel hose stem, coated with the conducting liquid, and pushed 25 mm (1") into the hose. An alternative for 50 mm (2") and above hose would be to apply the conductive silver lacquer onto the hose ID, then insert the plug or hose stem. The electrical leads from the test instrument shall be clean and they should make adequate contact with the metallic copper foil and/or copper plugs/hose stems.

### 5.0 Preparation and Cleaning for Test:

The surfaces of the hose shall be clean. If necessary, the hose surface may be cleaned by rubbing with Fuller's earth (magnesium aluminum silicate) and water, followed by a distilled water rinse, and allowing the hose to dry in a non-contaminating environment. Do not use organic materials that attack or swell the rubber, and do not buff or abrade the test surfaces.

The surface of the hose shall not be deformed either during the application of the contacts or during the test. When using test pieces, the supports shall be outside the test length. When using a long length of hose, the hose shall be uncoiled and laid out straight on polyethylene or other suitable insulating material. Care should be taken to ensure that the hose is insulated from any electrical leakage path along the length of the hose.

### **6.0 Test Conditions:**

For lab testing, the hose or hose assemblies shall be conditioned for at least 16 hours at  $\pm 2^{\circ}$  C  $\pm 2^{\circ}$  C (73.4°F  $\pm 3.6$ °F) with a relative humidity not to exceed 70%. However, it is permissible, by agreement between the supplier and the customer, to use the conditions prevailing in the factory, warehouse, or laboratory, provided that the relative humidity does not exceed 70%.

### 7.0 Test Pieces:

Prepare three test pieces approximately 300 mm (12") long from samples taken at random from a production run or lot. Condition the test pieces per section 6.0.

Place the test piece on blocks of polyethylene, or other insulating material, to provide a resistance of greater than  $10^{11}\Omega$  between the test piece and the surface on which the blocks are supported. Ensure that the leads from the instrument do not touch each other, the hose, or any part except the terminal to which each is connected.

Avoid breathing on the test surfaces and thus creating condensation that may lead to inaccuracies.

### 8.0 Procedure for hoses with conducting tube:

Apply the electrodes as specified to the inside surface of the hose at each end of the hose. The edge of the electrode plug shall be coincident with the end of the hose. When using a conductive liquid, care shall be taken to avoid creating a leakage path between the tube and the reinforcement or cover of the hose.

Apply the metal contacts to the electrodes.

Apply the test voltage (9V) and measure the resistance 5 seconds  $\pm$  1 second after the voltage is applied.

Note: In previous editions of the Hose Handbook, this method was referred to as the Plug Method.

### 9.0 Procedure for hose with conducting cover:

Apply the electrodes as specified to the outer circumference of the hose at each hose end. See Figure 6-1.

Ensure that contact is maintained with the electrodes around the circumference and that the contact pieces are sufficiently long enough for the two free ends to be held securely by a tensioning clip (see Figure 6-1) such that the fit of the electrodes is as tight as possible.

Apply the metal contacts.

Apply the test voltage (9V) and measure the resistance 5 seconds  $\pm 1$  second after the voltage is applied.



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# GENERAL INFORMATION

### **ELECTRICAL RESISTANCE TESTS**

FOR HOSE AND HOSE ASSEMBLIES (continued)

### **Dimensions in Millimeters**

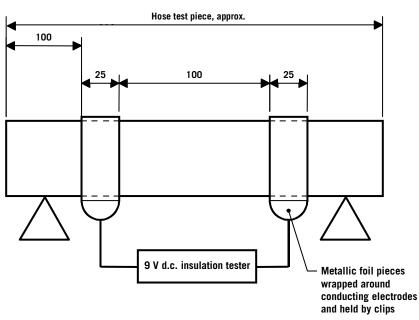


Figure 6-1 – Electrodes and contacts for testing hose

### 10.0 Procedure for hose with conducting or non-conducting compounds throughout:

Apply the electrodes as specified on the inside surface at one end of the hose (end A) and on the outside surface at the other end of the hose (end B).

Apply the metal contacts to the electrodes.

Apply the test voltage (9V for conductive compounds and 500V for non-conductive compounds) and measure the resistance  $5 \text{ seconds} \pm 1 \text{ second}$  after the voltage is applied.

Alternative method for non-conductive hose - Nail or "Pot Room" Method

Conduct test as follows:

- 1. Cut sample hose, 24 inches long
- 2. Assure that both inside and outside of hose are free of oil, dirt, etc.
- 3. Pierce sample ends with clean nails, as shown in Fig. 6-2.
- 4. Connect nails to 1000-volt DC power source and megohm meter or 1000 volt "megger" as shown in Fig. 6-2.
- 5. Record total resistance, in megohms.
- 6. Measure "test length" as shown in Fig. 6-2.
- 7. Divide total resistance by test length to get megohms per inch.



# GENERAL INFORMATION

### **ELECTRICAL RESISTANCE TESTS**

FOR HOSE AND HOSE ASSEMBLIES (continued)

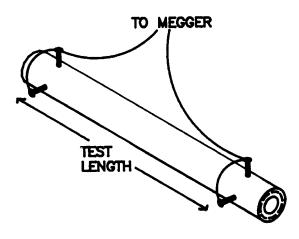


Figure 6-2 - Nail or "Pot Room" Test

### 11.0 Procedure for hose assemblies fitted with metal end fittings:

When it is required that the resistance of a hose assembly be measured, the leads of the test instrument shall be attached directly to the metal hose shank (threaded end connection, fixed flange, stub end of a floating flange, etc.) of the metal end fittings.

Some hoses, especially thermoplastic hoses, have conductive layers within the hose construction. These hoses shall be tested as assemblies made with fittings and assembly techniques specified by the hose and fitting manufacturer.

Apply the metal contacts to the metal end fittings.

Apply the test voltage (9V) and measure the resistance 5 seconds  $\pm 1$  second after the voltage is applied.

### 12.0 Procedure for measurement of electrical continuity:

In certain types of hose constructions, electrical continuity is provided between the end fittings by means of a continuous wire or wires bonded to each coupling. When the construction is such that there are internal and external wires, the electrical continuity of both wires shall be established.

It is essential that contact resistance between the end fittings and the ohmmeter be minimized.

Apply the metal contacts to the metal end fittings.

Apply the test voltage (9V) and measure the resistance 5 seconds  $\pm$  1 second after the voltage is applied.

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| Veyance<br>Tradename | Industry<br>Designation             | Outstanding<br>Feature  | Sample Hose  |
|----------------------|-------------------------------------|---|--|
| Alphasyn®            | Modified Cross-Link<br>Polyethylene | Excellent high-temperature chemical resistance.                         | Tube compound in Viper™ chemical transfer hose.  |
| Carbryn™             | Carboxylated<br>Nitrile             | Excellent oil and abrasion resistance, good chemical resistance.        | Cover compound on multipurpose<br>hose: Gorilla® and Ortac®, pressure<br>washer hose: Galvanator® and<br>Gauntlet.®          |
| Nitrile              | Nitrile OR Buna-N                   | Oil, solvent and aromatics resistance.                                  | Tube and cover compound in premium air and multipurpose hose, petroleum transfer hose: Gorilla®, Ortac®, Flexwing® Petroleur |
| Chemivic™            | Buna-N-Vinyl                        | Oil and abrasion resistant compound. Excellent ozone resistance.        | Cover compound air/mp hose.<br>Tube compound in food hose:<br>White Flexwing.®   |
| Chemrin®             | Chlorinated<br>Polyethylene (CPE)   | Excellent chemical resistance.  | Tube compound chemical hose:<br>Brown Flexwing.®   |
| Chlorobutyl          | Chlorobutyl                         | FDA compliant material in food hose. Excellent heat resistance.         | Tube compound in food hose and Flexsteel® 250 CB Steam Hose.   |
| Flosyn®              | Viton                               | Excellent oil and chemical resistance.                                  | Tube compound in Orange<br>Flexwing® chemical hose.  |
| Hysunite™            | Hypalon                             | Chemical and oil resistant.   | Tube compound in chemical transfer hose: Yellow Flexwing.®   |
| Nylon                | Nylon                               | Resistant to many paint sprays, lacquers, thinners, and mild chemicals. | Tube compound in NR Paint<br>Spray.  |
| Omegasyn™            | EPDM (abrasion-<br>resistant)       | Excellent abrasion resistance. Mild chemical resistance.                | Cover compound: Viper.™  |
| Plioflex®            | SBR                                 | Good abrasion resistance.   | Tube and cover compound in water suction and discharge hose: Plicord® Water S&D.   |
| Pyrosyn <sup>®</sup> | EPDM<br>(Heat Resisant)             | Heat resisant   | Tube compound in Flexsteel® 250 Steam and Whitewater, Cover on Flexsteel® 250 Steam and Flexsteel® 250 CB Steam.             |





# **GENERAL INFORMATION**

| ELASTOMERS USED IN THE MANUFACTURE OF "RUBBER TYPE" PRODUCTS |  |   |  |  |  |  |  |
|--|--|---|--|--|--|--|--|
| Veyance<br>Tradename   | Industry<br>Designation  | Outstanding<br>Feature  | Sample Hose  |  |  |  |  |
| Pliosyn™   | Ultra High Molecular<br>Weight Polyethylene                                    | Excellent chemical resistance. Good flexibility properties.   | Tube compound in Fabchem™<br>chemical hose.  |  |  |  |  |
| Pliovic®   | Polyvinyl Chloride   | Lightweight, flexible and economical.   | Pliovic® 250, Spiraflex® 1600.   |  |  |  |  |
| Pureten™   | Natural Rubber   | Excellent abrasion resistance, resilient, tensile strength, retains flexibility below 0°F (Poor ozone). | Tube compound in material<br>handling hose: Blucor®,<br>Harvest™, and Tan Flexwing.®               |  |  |  |  |
| Speclar®   | Cross-Link<br>Polyethylene   | Excellent chemical resistance.  | Tube compound in Blue<br>Flexwing® chemical hose.  |  |  |  |  |
| Spirathane™  | Urethane   | Excellent abrasion resistance and good chemical resistance.   | Spirathane™ LD and inner liner<br>of Spirathane™ HD.   |  |  |  |  |
| Teflon®  | Fluorinated<br>Propylene OR Teflon®  | Excellent chemical and petroleum resistance.  | Tube compound in Hi-Per <sup>®</sup><br>Teflon <sup>®</sup> Hose.                                  |  |  |  |  |
| TPE  | Thermoplastic<br>Elastomer   | Heat and/or cold resistant, flexible and resistant to solvents.   | Premier.   |  |  |  |  |
| Tufsyn®  | Polybutadiene<br>Blend   | Good tensile strength, high elongation, abrasion resistance, nonstatic properties.                      | Tube compound in Plicord®<br>Blast, Plicord® Dredge Sleeve,<br>Sand Suction                        |  |  |  |  |
| Versigard®   | EPDM   | Heat and/or cold resistant,<br>weather and ozone resistant,<br>mild chemical resistance.                | Tube and cover compound in multipurpose hose: Horizon®, cover compound on chemical hose: Fabchem.® |  |  |  |  |
| Weatherex®   | Butyl Low permeability to air and gas; outstanding dampening and shock effect. |   | Tube compound in chemical transfer hose: Yellow Flexwing.®   |  |  |  |  |
| Wingprene®   | Neoprene (DuPont)  | All purpose elastomer;<br>good oil, heat and chemical<br>resistance; very good ozone<br>resistance.     | Cover compound in petroleum<br>transfer hose: Super Black<br>Flexwing®, and Red Flextra.®          |  |  |  |  |

AIR & MULTIPURPOSE General Purpose Heavy Duty

> CHEMICAL TRANSFER

Push-on

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### **HOW TO SELECT THE RIGHT HOSE**

In order to obtain the best service from any particular hose application, two important conditions must be fulfilled:

- 1. To select the right hose for the job.
- To make sure, that after having obtained the right hose, it is fitted correctly and used in a proper manner.

When considering a particular hose application, the following basic factors should be considered:

- 1. Inside diameter.
- 2. Outside diameter.
- Materials being conveyed (e.g., air, water, acids, oils, steam, etc.).
- Precise composition of substance (important in the case of oils, solvents, spraying media, foods, beverages, petroleum products, gases, etc.).
- 5. Concentration (in the case of chemicals).
- 6. Maximum temperature of substance.
- Maximum pressure (including any possible surge or back pressure).
- 8. Degree of vacuum (in the case of suction hose).
- **9.** External conditions. The scope of this factor is possibly the widest of all and covers such things as:

Abrasion.

Climactic conditions.

Direct heat.

Radiated heat.

Contamination from oil, grease, solvents, acids, etc. End loads.

Flexings — degree and cycle.

Crushing conditions.

Kinking conditions.

Details of couplings (particularly in specialized applications).

### Steam Hose

Air, steam and water hoses are the three types of hose most used in industrial plants. The following instructions apply in general to these types of hose. Since steam service is usually the most severe in the average plant, particular attention is directed to steam hose. In selecting a hose for a steam installation it is important that the type recommended is sufficient to handle the maximum working pressure. Your Goodyear Engineered Products representative will assist in making recommendations.

At elevated temperatures, steam severely affects rubber hose of all types, so it is important that temperature be considered in the choice of a steam hose. High steam temperature and pressure can cause deterioration in certain reinforcing members used in hose and a relatively small increase in temperature can greatly affect hose performance.

The steam pressure is important in that it determines the minimum temperature condition under which the hose will be used. If the steam is saturated, its temperature is directly related to its pressure. The temperature may be determined from the Saturated Steam Table on page 317. However, if steam is superheated, the degree of superheating must be known to determine the actual temperature which the hose must withstand.

The flex factor takes into consideration the magnitude of the flexing and its time cycle. A flexing that is rapid and continuous, even though of small magnitude, would be considered as severe as flexing that is large in magnitude but with an extremely long time cycle. The degree of flexing is an important factor in the ultimate life of the hose.

Refer to R.M.A. Technical Information Bulletin #1P-11-1.

### Air Hose

Many fine types of air hose, equipped with tough, abrasionresisting covers and with are offered tube stocks which will successfully resist oil mist, if present. Where tools are lubricated through hose, only the very best quality air hose with highest grade oil-resisting tube should be used. The recommended working pressure should be sufficient to withstand the maximum pressures encountered.

### **Water Hose**

In the selection of the correct water hose for any service, the same principles apply as for air and steam hose.

### **Suction Hose**

Most Goodyear Engineered Products vacuum or suction hose are designed to withstand full vacuum. However, in some of the lighter styles, less than full vacuum is recommended.

Use the information in this catalog to help determine the best hose for your application. To assist your efforts to collect the data necessary to make a proper hose recommendation, use the form on the next page.



# **GENERAL INFORMATION**

### **INDUSTRIAL HOSE INQUIRY/RECOMMENDATION**

| 1.D.   Working     O.D.   Hose Length (OAL or uncoupled length)   Telerances     TEMPERATURE:   Of Material Being Conveyed (High, Low, Ambient)   Of Outside Exposure (High, Low, Ambient)   Intermittent?   Constant?   Sub-zero Exposure?   Sub-zero Exposure?   Built-in Fittings / Ends:   | Working Pressure (Including Surges)  Burst Pressure Suction or Vacuum Requirements Velocity Impulse  ENDS & FITTINGS: Type of threads Male/Female Reusable/Nonreusable Material for Fittings in Fittings / Ends: Rubber-Lined Rubber-Lined |
|--|--|
| or uncoupled length)  Tolerances  TEMPERATURE: (High, Low, Ambient) (High, Low, Ambient) Intermittent? Constant? Sub-zero Exposure? Sub-zero Exposure?  Built-in Fittings / Built-in Fitti | EN EN  |
| Tolerances Tolerances (High, Low, Ambient) (High, Low, Ambient) (High, Low, Ambient) (High, Low, Ambient) (Sub-zero Exposure?  Sub-zero Exposure?  Sub-Zero Exposure?  Sub-Zero Exposure?  Sub-Zero Exposure?  | EN EN  |
| Tolerances  (High, Low, Ambient) (High, Low, Ambient) Intermittent? Constant? Sub-zero Exposure? Sub-Zero Exposure?  PPLICATION(S):  Red Applied Figure 1.   |  |
| (High, Low, Ambient) (High, Low, Ambient) Intermittent? Constant? Sub-zero Exposure?   |  |
| (High, Low, Ambient) (High, Low, Ambient) Intermittent? Constant? Sub-zero Exposure?   | E  |
| (High, Low, Ambient) Intermittent? Constant? Sub-zero Exposure?  |  |
| Intermittent? Constant? Sub-zero Exposure?  PPLICATION(S):   |  |
| Constant? Sub-zero Exposure?  PPLICATION(S):   |  |
| Sub-zero Exposure?  PPLICATION(S):   |  |
| PPLICATION(S):   | Rubbe  |
|  | Flanged<br>Rubber-Lined  |
| Indoor and/or Outdoor Use  | Rubber-Linea   |
| Intermittent or Continuous Use   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,   |
| Flexibility Required (Min. Bend Radius)  | Janon Country  |
| Movement (Static, Vibrations, Flexing)   | Cut to Length  |
|  | Crimp specs/crimper (nyaraulics)   |
|  | DELIVERY:  |
| Solvents   | Lead time  |
| Acid   | Quantity   |
| Ozone  | Stock/Nonstock   |
| Electrical/Static Conductive   | Special Print  |
| Oil Resistance: Tube   | Special Packaging  |
| Cover  | OTHER INFORMATION:   |
|  |  |
| Non-contaminating Materials Customer:  | r: Date:   |
| Hose Currently in Use Customer #:  |  |
| Current Hose Service Life/Failure Description  |  |
| Service Life Desired Ship To:  |  |
| MATERIAL(S) BEING CONVEYED:  |  |
| Solids (Size, Description)   | Fax#.  |
|  |  |
| Liquids (Flammability, Causticity, Acid/Alkaline, Solution/Concentration)  | Bolded block areas MUST be filled out on all inquiries.  |
| Chemical Names (Generic)   |  |

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### MARINE

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|-------------------|
| HANDLING          |
| Abrasives         |
| Bulk Transfer     |
| Cement & Concrete |

### MINING

| PETROLEUM        |
|------------------|
| Aircraft Fueling |
| Dispensing       |
| Dock             |
| Transfer         |

### SPRAY

### STEAM

### VACUUM

### VEYANCE

| WATER     |  |
|-----------|--|
| Discharge |  |
| Suction & |  |
| D: 1      |  |

Washdown

### WELDING

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|--------|----------|----------|
|        | <br>1.4. | V W - E  |

| Locate                     | tempera                | nture in m            | iddle col   | umn. Ii  | f in °C, read   | d °F equiv  | alent ir   | ı right-han   | ıd column   | ; if in °   | F, read °(   | C in left-ha   | and colu   | ımn.   |
|----------------------------|------------------------|-----------------------|---|--|---|---|--|---|---|---|--|--|--|--|
|                            | -459° to               | O°                    |   | 1° to 6  | 0°  | 6   | 1° to 29   | 90°   | 30  | 10° to 8  | 90°  | 90   | 10° to 30  | 100°   |
| С                          | C<br>F                 | F                     | С   | C<br>F   | F   | С   | C<br>F   | F   | С   | C<br>F  | F  | С  | C<br>F   | F  |
| -273                       | -459.4                 |                       | -17.2   | 1  | 33.8  | 16.1  | 61   | 141.8   | 149   | 300   | 572  | 482  | 900  | 1652   |
| -268                       | -450                   |                       | -16.7   | 2  | 35.6  | 16.7  | 62   | 143.6   | 154   | 310   | 590  | 488  | 910  | 1670   |
| -262                       | -440                   |                       | -16.1   | 3  | 37.4  | 17.2  | 63   | 145.4   | 160   | 320   | 608  | 493  | 920  | 1688   |
| -257                       | -430                   |                       | -15.6   | 4  | 39.2  | 17.8  | 64   | 147.2   | 166   | 330   | 626  | 499  | 930  | 1706   |
| -251                       | -420                   |                       | -15.0   | 5  | 41.0  | 18.3  | 65   | 149.0   | 171   | 340   | 644  | 504  | 940  | 1724   |
| -246                       | -410                   |                       | -14.4   | 6  | 42.8  | 18.9  | 66   | 150.8   | 177   | 350   | 662  | 510  | 950  | 1742   |
| -240                       | -400                   |                       | -13.9   | 7  | 44.6  | 19.4  | 67   | 152.6   | 182   | 360   | 680  | 516  | 960  | 1760   |
| -234                       | -390                   |                       | -13.3   | 8  | 46.4  | 20.0  | 68   | 154.4   | 188   | 370   | 698  | 521  | 970  | 1778   |
| -229                       | -380                   |                       | -12.8   | 9  | 48.2  | 20.6  | 69   | 156.2   | 193   | 380   | 716  | 527  | 980  | 1796   |
| -223                       | -370                   |                       | -12.2   | 10   | 50.0  | 21.1  | 70   | 158.0   | 199   | 390   | 734  | 532  | 990  | 1814   |
| -218                       | -360                   |                       | -11.7   | 11   | 51.8  | 21.7  | 71   | 159.8   | 204   | 400   | 752  | 538  | 1000   | 1832   |
| -212                       | -350                   |                       | -11.1   | 12   | 53.6  | 22.2  | 72   | 161.6   | 210   | 410   | 770  | 549  | 1020   | 1868   |
| -207                       | -340                   |                       | -10.6   | 13   | 55.4  | 22.8  | 73   | 163.4   | 216   | 420   | 788  | 560  | 1040   | 1904   |
| -201                       | -330                   |                       | -10.0   | 14   | 57.2  | 23.3  | 74   | 165.2   | 221   | 430   | 806  | 571  | 1060   | 1940   |
| -196                       | -320                   |                       | -9.4  | 15   | 59.0  | 23.9  | 75   | 167.0   | 227   | 440   | 824  | 582  | 1080   | 1976   |
| -190                       | -310                   |                       | -8.9  | 16   | 60.8  | 24.4  | 76   | 168.8   | 232   | 450   | 842  | 593  | 1100   | 2012   |
| -184                       | -300                   | -459.4                | -8.3  | 17   | 62.6  | 25.0  | 77   | 170.6   | 238   | 460   | 860  | 604  | 1120   | 2048   |
| -179                       | -290                   |                       | -7.8  | 18   | 64.4  | 25.6  | 78   | 172.4   | 243   | 470   | 878  | 616  | 1140   | 2084   |
| -173                       | -280                   |                       | -7.2  | 19   | 66.2  | 26.1  | 79   | 174.2   | 249   | 480   | 896  | 627  | 1160   | 2120   |
| -169                       | -273                   |                       | -6.7  | 20   | 68.0  | 26.7  | 80   | 176.0   | 254   | 490   | 914  | 638  | 1180   | 2156   |
| -168                       | -270                   | -454                  | -6.1  | 21   | 69.8  | 27.2  | 81   | 177.8   | 260   | 500   | 932  | 649  | 1200   | 2192   |
| -162                       | -260                   | -436                  | -5.6  | 22   | 71.6  | 27.8  | 82   | 179.6   | 266   | 510   | 950  | 660  | 1220   | 2228   |
| -157                       | -250                   | -418                  | -5.0  | 23   | 73.4  | 28.3  | 83   | 181.4   | 271   | 520   | 968  | 671  | 1240   | 2264   |
| -151                       | -240                   | -400                  | -4.4  | 24   | 75.2  | 28.9  | 84   | 183.2   | 277   | 530   | 986  | 682  | 1260   | 2300   |
| -146                       | -230                   | -382                  | -3.9  | 25   | 77.0  | 29.4  | 85   | 185.0   | 282   | 540   | 1004   | 693  | 1280   | 2336   |
| -140                       | -220                   | -364                  | -3.3  | 26   | 78.8  | 30.0  | 86   | 186.8   | 288   | 550   | 1022   | 704  | 1300   | 2372   |
| -134                       | -210                   | -346                  | -2.8  | 27   | 80.6  | 30.6  | 87   | 188.6   | 293   | 560   | 1040   | 732  | 1350   | 2462   |
| -129                       | -200                   | -328                  | -2.2  | 28   | 82.4  | 31.1  | 88   | 190.4   | 299   | 570   | 1058   | 760  | 1400   | 2552   |
| -123                       | -190                   | -310                  | -1.7  | 29   | 84.2  | 31.7  | 89   | 192.2   | 304   | 580   | 1076   | 788  | 1450   | 2642   |
| -118                       | -180                   | -292                  | -1.1  | 30   | 86.0  | 32.2  | 90   | 194.0   | 310   | 590   | 1094   | 816  | 1500   | 2732   |
| -112                       | -170                   | -274                  | -0.6  | 31   | 87.8  | 32.8  | 91   | 195.8   | 316   | 600   | 1112   | 843  | 1550   | 2822   |
| -107                       | -160                   | -256                  | 0.0   | 32   | 89.6  | 33.3  | 92   | 197.6   | 321   | 610   | 1130   | 871  | 1600   | 2912   |
| -101                       | -150                   | -238                  | 0.6   | 33   | 91.4  | 33.9  | 93   | 199.4   | 327   | 620   | 1148   | 899  | 1650   | 3002   |
| -96                        | -140                   | -220                  | 1.1   | 34   | 93.2  | 34.4  | 94   | 201.2   | 332   | 630   | 1166   | 927  | 1700   | 3092   |
| -90                        | -130                   | -202                  | 1.7   | 35   | 95.0  | 35.0  | 95   | 203.0   | 338   | 640   | 1184   | 954  | 1750   | 3182   |
| -84                        | -120                   | -184                  | 2.2   | 36   | 96.8  | 35.6  | 96   | 204.8   | 343   | 650   | 1202   | 983  | 1800   | 3272   |
| -79                        | -110                   | -166                  | 2.8   | 37   | 98.6  | 36.1  | 97   | 206.6   | 349   | 660   | 1220   | 1010   | 1850   | 3362   |
| -73                        | -100                   | -148                  | 3.3   | 38   | 100.4   | 36.7  | 98   | 208.4   | 354   | 670   | 1238   | 1038   | 1900   | 3452   |
| -68                        | -90                    | -130                  | 3.9   | 39   | 102.2   | 37.2  | 99   | 210.2   | 360   | 680   | 1256   | 1066   | 1950   | 3542   |
| -62                        | -80                    | -112                  | 4.4   | 40   | 104.0   | 37.8  | 100  | 212.0   | 366   | 690   | 1274   | 1093   | 2000   | 3632   |
| -57                        | -70                    | -94                   | 5.0   | 41   | 105.8   | 43  | 110  | 230   | 371   | 700   | 1292   | 1121   | 2050   | 3722   |
| -51                        | -60                    | -76                   | 5.6   | 42   | 107.6   | 49  | 120  | 248   | 377   | 710   | 1310   | 1149   | 2100   | 3812   |
| -46                        | -50                    | -58                   | 6.1   | 43   | 109.4   | 54  | 130  | 266   | 382   | 720   | 1328   | 1177   | 2150   | 3902   |
| -40                        | -40                    | -40                   | 6.7   | 44   | 111.2   | 60  | 140  | 284   | 388   | 730   | 1346   | 1204   | 2200   | 3992   |
| -34<br>-29<br>-23<br>-17.8 | -30<br>-20<br>-10<br>0 | -22<br>-4<br>14<br>32 | 7.2<br>7.8<br>8.3<br>8.9<br>9.4<br>10.0<br>10.6<br>11.1<br>11.7<br>12.2<br>12.8<br>13.3<br>13.9<br>14.4<br>15.0 | 45<br>46<br>47<br>48<br>49<br>51<br>52<br>53<br>55<br>55<br>57<br>59<br>60 | 113.0<br>114.8<br>116.6<br>118.4<br>120.2<br>122.0<br>123.8<br>125.6<br>127.4<br>129.2<br>131.0<br>132.8<br>134.6<br>136.4<br>136.4<br>138.2<br>140.0 | 66<br>71<br>77<br>82<br>88<br>93<br>99<br>100<br>104<br>110<br>116<br>121<br>127<br>132<br>138<br>143 | 150<br>160<br>170<br>180<br>190<br>200<br>210<br>212<br>220<br>230<br>240<br>250<br>260<br>270<br>280<br>290 | 302<br>320<br>338<br>356<br>374<br>392<br>410<br>413.6<br>428<br>446<br>464<br>482<br>500<br>518<br>554 | 393<br>399<br>404<br>410<br>416<br>421<br>427<br>432<br>438<br>449<br>454<br>460<br>471 | 740<br>750<br>760<br>770<br>780<br>790<br>800<br>810<br>820<br>830<br>840<br>850<br>850<br>870<br>880 | 1364<br>1382<br>1400<br>1418<br>1436<br>1454<br>1472<br>1490<br>1508<br>1526<br>1544<br>1562<br>1580<br>1598<br>1616<br>1634 | 1232<br>1260<br>1288<br>1316<br>1343<br>1371<br>1399<br>1427<br>1454<br>1482<br>1510<br>1538<br>1566<br>1593<br>1621<br>1649 | 2250<br>2300<br>2350<br>2400<br>2450<br>2550<br>2550<br>2600<br>2650<br>2700<br>2750<br>2800<br>2950<br>3000 | 4082<br>4172<br>4262<br>4352<br>4442<br>4532<br>4712<br>4802<br>4892<br>4982<br>5072<br>5162<br>5252<br>5342<br>5432 |



# **GENERAL INFORMATION**

### **USEFUL CONVERSION CHARTS**

### **Decimal and Millimeter Equivalents of Fractions**

| Decimal and Millimete            |          |                |  |  |  |  |  |
|----------------------------------|----------|----------------|--|--|--|--|--|
| Inches<br>Fractions              | Decimals | Millimeters    |  |  |  |  |  |
| 1/64                             | 015005   | 007            |  |  |  |  |  |
| 1/32                             | .015625  | .397           |  |  |  |  |  |
| 3/64                             | .03125   | .794           |  |  |  |  |  |
| 1/16 —                           | .046875  | 1.191<br>1.588 |  |  |  |  |  |
| 5/64 —                           | .0625    |                |  |  |  |  |  |
| 3/32                             | .078125  | 1.984<br>2.381 |  |  |  |  |  |
| 7/64                             | .109375  |                |  |  |  |  |  |
| 1/8 —                            | .109375  | 2.778<br>3.175 |  |  |  |  |  |
| 9/64                             | .140625  | 3.175          |  |  |  |  |  |
| 5/32 ——                          | .15625   | 3.969          |  |  |  |  |  |
| 11/64                            | .171875  | 4.366          |  |  |  |  |  |
| 3/16 —                           | .1875    | 4.763          |  |  |  |  |  |
| 13/64                            | .203125  | 5.159          |  |  |  |  |  |
| 7/32 ——                          | .21875   | 5.556          |  |  |  |  |  |
| 15/64                            | .234375  | 5.953          |  |  |  |  |  |
| 1/4 —                            | .250     | 6.350          |  |  |  |  |  |
| 17/64                            | .265625  | 6.747          |  |  |  |  |  |
| 9/32 ———                         | .28125   | 7.144          |  |  |  |  |  |
| 19/64 ———                        | .296875  | 7.541          |  |  |  |  |  |
| 5/16 —                           | .3125    | 7.938          |  |  |  |  |  |
| 21/64 ———                        | .328125  | 8.334          |  |  |  |  |  |
| 11/32 ———                        | .34375   | 8.731          |  |  |  |  |  |
| 23/64 ———                        | .359375  | 9.128          |  |  |  |  |  |
| 3/8 —                            | .375     | 9.525          |  |  |  |  |  |
| 25/64                            | .390625  | 9.922          |  |  |  |  |  |
| 13/32                            | .40625   | 10.319         |  |  |  |  |  |
| <sup>2</sup> / <sub>64</sub> ——— | .421875  | 10.716         |  |  |  |  |  |
| //16 —                           | .4375    | 11.113         |  |  |  |  |  |
| 29/64                            | .453125  | 11.509         |  |  |  |  |  |
| 15/32 ———                        | .46875   | 11.906         |  |  |  |  |  |
| 31/64 —                          | .484375  | 12.303         |  |  |  |  |  |
| 1/2 —                            | .500     | 12.700         |  |  |  |  |  |

| Inches                |          |            |
|-----------------------|----------|------------|
| Fractions             | Decimals | Millimeter |
| 33/64                 | .515625  | 13.097     |
| 1//32                 | .53125   | 13.494     |
| 35/64 ———             | .546875  | 13.891     |
| <sup>9</sup> /16 —    | .5625    | 14.288     |
| 37/64                 | .578125  | 14.684     |
| 19/32 ———             | .59375   | 15.081     |
| 39/64                 | .609375  | 15.478     |
| 5,0                   | .625     | 15.875     |
| 41/64                 | .640625  | 16.272     |
| 41/64 21/32           | .65625   | 16.669     |
| · · / h/l —           | .671875  | 17.066     |
| 11/16—                | .6875    | 17.463     |
| 45/64                 | .703125  | 17.859     |
| <sup>23</sup> /32 ——— | .71875   | 18.256     |
| 47/64                 | .734375  | 18.653     |
| 3/4-                  | .750     | 19.050     |
| 49/64                 | .765625  | 19.447     |
| 25/32                 | .78125   | 19.844     |
| 51/64 — 13            | .796875  | 20.241     |
| 13/16 —               | .8125    | 20.638     |
| 53/64                 | .828125  | 21.034     |
| 27/32                 | .84375   | 21.431     |
| 55/64 — 7             | .859375  | 21.828     |
| 7/8—                  | .875     | 22.225     |
| 57/64 29              | .890625  | 22.622     |
| 29/32                 | .90625   | 23.019     |
| 59/64 — 15            | .921875  | 23.416     |
| 15/16 —               | .9375    | 23.813     |
| 31                    | .953125  | 24.209     |
| 61/64 31/32           | .96875   | 24.606     |
| / 64                  | .984375  | 25.003     |
| 1-                    | 1.000    | 25.400     |

# Pressure Conversion (feet of water to pounds per square inch) Based on formula (psi) = Pressure Head [Ft. of Water] x 0.433

|                   | Dasca on lon   | iiuiu (psi) — i 1033ui | ic ricau įi t. vi i | vater j x 0.400 |            |
|-------------------|----------------|------------------------|---------------------|-----------------|------------|
| Pressure Head     | Pressure       | Pressure Head          | Pressure            | Pressure Head   | Pressure   |
| (Ft. of Water)    | (psi)          | (Ft. of Water)         | (psi)               | (Ft. of Water)  | (psi)      |
| 0                 | 0              | 200                    | 87                  | 410             | 177        |
| 5                 | 2.2            | 210                    | 91                  | 420             | 182        |
| 10                | 4.3            | 220                    | 95                  | 430             | 186        |
| 20                | 8.7            | 230                    | 100                 | 440             | 190        |
| 30                | 13             | 240                    | 104                 | 450             | 195        |
| 40                | 17             | 250                    | 108                 | 460             | 199        |
| 50                | 22             | 260                    | 113                 | 470             | 203        |
| 60                | 26             | 270                    | 117                 | 480             | 208        |
| 70                | 30             | 280                    | 121                 | 490             | 212        |
| 80                | 35             | 290                    | 126                 | 500             | 216        |
| 90                | 39             | 300                    | 130                 | 550             | 238        |
| 100               | 43             | 310                    | 134                 | 600             | 260        |
| 110               | 48             | 320                    | 139                 | 650             | 281        |
| 120               | 52             | 330                    | 143                 | 700             | 303        |
| 130               | 56             | 340                    | 147                 | 750             | 325        |
| 140               | 61             | 350                    | 151                 | 800             | 346        |
| 150               | 65             | 360                    | 156                 | 850             | 368        |
| 160               | 69             | 370                    | 160                 | 900             | 390        |
| 170<br>180<br>190 | 74<br>78<br>82 | 380<br>390<br>400      | 164<br>169<br>173   | 950<br>1000     | 411<br>433 |

GOOD YEAR.

ENGINEERED PRODUCTS

### **Pressure Conversion**

(feet of water to inches of mercury)

| Feet of<br>Water | Inches of<br>Mercury |
|------------------|----------------------|
| 1                | 0.9                  |
| 2                | 1.8                  |
| 4                | 3.5                  |
| 6                | 5.3                  |
| 8                | 7.1                  |
| 10               | 8.8                  |
| 12               | 10.6                 |
| 14               | 12.4                 |
| 16               | 14.1                 |
|                  |                      |
| 18               | 15.9                 |
| 20               | 17.7                 |
| 22               | 19.4                 |
| 24               | 21.2                 |
| 26               | 23.0                 |
| 28               | 24.8                 |
| 20               | 00.5                 |
| 30               | 26.5                 |
| 32               | 28.3                 |
| 34               | 30.0                 |
|                  |                      |

### **Measures of Pressures**

1 lb. per square inch = 144 lbs. per square foot = 0.068 atmosphere = 2.042 inches of mercury @  $62^{\circ}F$  = 2.31 feet of water at  $62^{\circ}F$ .

1 atmosphere = 30 inches of mercury at  $62^{\circ}F = 14.7$  lbs. per square inch = 2116.3 lbs. per square foot = 33.95 feet of water at  $62^{\circ}F$ .

1 foot of water at  $62^{\circ}F = 62.355$  lbs. per square foot = 0.433 lb. per square inch.

1 inch of mercury at  $62^{\circ}F = 1.132$  feet of water = 13.58 inches of water = 0.491 lb. per square inch.

Column of water 12 inches high, 1 inch diameter = .341 lb.

AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge

WELDING

COUPLING SYSTEMS

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS GENERAL INFORMATION

|  | LENGTH CONVERSION CONSTANTS            |                                       |
|--|--|---------------------------------------|
|  | Metric to U.S.                         | U.S. to Metric                        |
|  | Millimeters x .039370 = inches         | Inches $x 25.4001 = millimeters$      |
|  | Meters x 39.370 = inches               | Inches x .0254 = meters               |
|  | Meters $x 3.2808 = feet$               | Feet x .30480 = meters                |
|  | Meters x 1.09361 = yards               | Yards x .91440 = meters               |
|  | Kilometers x 3,280.8 = feet            | Feet x .0003048 = kilometers          |
|  | Kilometers x .62137 = Statute Miles    | Statute Miles x 1.60935 = kilometers  |
|  | Kilometers $x .53959 = Nautical Miles$ | Nautical Miles x 1.85325 = kilometers |

| WEIGHT CONVERSION CONSTANTS                             |   |
|---|---|
| Metric to U.S.  | U.S. to Metric  |
| Grams x 981 = dynes                                     | Dynes $x .0010193 = grams$                                |
| Grams x 15.432 = grains                                 | Grains x .0648 = grams                                    |
| Grams $x.03527 = ounces$ (Avd.)                         | Ounces (Avd.) $\times$ 28.35 = grams                      |
| Grams x .033818 = fluid ounces (water)                  | Fluid Ounces (Water) x 29.57 = grams                      |
| Kilograms $x 35.27 = ounces (Avd.)$                     | Ounces (Avd.) $\times$ .02835 = kilograms                 |
| Kilograms x $2.20462 = pounds$ (Avd.)                   | Pounds (Avd.) x .45359 = kilograms                        |
| Metric tons (1000 Kg.) x 1.10231 = Net ton (2000 lbs.)  | Net ton (2000 lbs.) x .90719 = Metric tons (1000 Kg.)     |
| Metric tons (1000 Kg.) x .98421 = Gross ton (2240 lbs.) | Gross ton (2240 lbs.) x 1.101605 = Metric tons (1000 Kg.) |

| AREA CONVERSION CONSTANTS                     |   |
|---|---|
| Metric to U.S.                                | U.S. to Metric                                  |
| Square millimeters $x$ .00155 = square inches | Square inches x $645.163 = $ square millimeters |
| Square centimeters $x.155 = square$ inches    | Square inches $x 6.45163 = square centimeters$  |
| Square meters x 10.76387 = square feet        | Square feet $x.0929 = square meters$            |
| Square meters x 1.19599 = square yards        | Square yards x .83613 = square meters           |
| Hectares x 2.47104 = acres                    | Acres $x.40469 = hectares$                      |
| Square kilometers x 247.104 = acres           | Acres x $.0040469 = $ square kilometers         |
| Square kilometers x .3861 = square miles      | Square miles $x = 2.5899 = square kilometers$   |





# GENERAL INFORMATION

### PROPERTIES OF SATURATED STEAM

The steam pressure is important because it determines the minimum temperature condition under which the hose will be used. The operating temperature is a very important factor in selecting a steam hose as a relatively small increase in temperature can greatly reduce the hose life.

| temperature is a very impo      | Pressure-Temperature Equivalents of Saturated Steam |   |                                 |                |                |  |  |  |  |  |
|---------------------------------|---|---|---------------------------------|----------------|----------------|--|--|--|--|--|
| Lbs. per<br>sq. in.<br>pressure | Temperature<br>°F                                   | °C  | Lbs. per<br>sq. in.<br>pressure | Tempera<br>°F  | ture<br>°C     |  |  |  |  |  |
| 0                               | 212.0   | 100.0                                     | 110                             | 344.1          | 173.4          |  |  |  |  |  |
| 5                               | 227.1   | 108.4                                     | 115                             | 347.2          | 175.1          |  |  |  |  |  |
| 10                              | 239.4   | 115.2                                     | 120                             | 350.1          | 175.7          |  |  |  |  |  |
| 15                              | 249.8   | 121.0                                     | 125                             | 352.9          | 178.3          |  |  |  |  |  |
| 20                              | 258.8   | 126.0                                     | 130                             | 355.6          | 179.8          |  |  |  |  |  |
| 22                              | 261.2   | 127.8                                     | 135                             | 358.3          | 181.3          |  |  |  |  |  |
| 24                              | 265.3   | 129.6                                     | 140                             | 360.9          | 182.7          |  |  |  |  |  |
| 26                              | 268.3   | 131.3                                     | 145                             | 363.4          | 184.1          |  |  |  |  |  |
| 28                              | 271.2   | 132.9                                     | 150                             | 365.9          | 185.5          |  |  |  |  |  |
| 30                              | 274.1   | 134.5                                     | 155                             | 368.2          | 186.8          |  |  |  |  |  |
| 32                              | 276.8   | 136.0                                     | 160                             | 370.6          | 188.1          |  |  |  |  |  |
| 34                              | 279.3   | 137.4                                     | 165                             | 373.9          | 189.4          |  |  |  |  |  |
| 36                              | 281.8   | 138.8                                     | 170                             | 375.3          | 190.7          |  |  |  |  |  |
| 38                              | 284.4   | 140.2                                     | 175                             | 377.4          | 191.9          |  |  |  |  |  |
| 40                              | 286.7   | 141.5                                     | 180                             | 379.6          | 193.1          |  |  |  |  |  |
| 42                              | 289.0   | 142.8                                     | 185                             | 381.7          | 194.3          |  |  |  |  |  |
| 44                              | 291.2   | 144.0                                     | 190                             | 383.7          | 195.4          |  |  |  |  |  |
| 46                              | 293.5   | 145.3                                     | 195                             | 385.9          | 196.6          |  |  |  |  |  |
| 48                              | 295.5   | 146.4                                     | 200                             | 387.9          | 197.7          |  |  |  |  |  |
| 50                              | 294.7   | 147.6                                     | 205                             | 398.8          | 198.8          |  |  |  |  |  |
| 52                              | 299.9   | 148.7                                     | 210                             | 391.6          | 199.8          |  |  |  |  |  |
| 54                              | 301.6   | 149.8                                     | 215                             | 392.9          | 200.5          |  |  |  |  |  |
| 56                              | 303.6   | 150.9                                     | 220                             | 395.4          | 201.7          |  |  |  |  |  |
| 58                              | 308.4   | 151.9                                     | 225                             | 397.2          | 202.9          |  |  |  |  |  |
| 60                              | 307.4   | 153.0                                     | 230                             | 399.0          | 203.9          |  |  |  |  |  |
| 62                              | 309.2   | 154.0                                     | 235                             | 400.7          | 204.8          |  |  |  |  |  |
| 64                              | 310.8   | 154.9                                     | 240                             | 402.5          | 205.8          |  |  |  |  |  |
| 66                              | 312.6   | 155.9                                     | 245                             | 404.2          | 206.8          |  |  |  |  |  |
| 68                              | 314.2   | 156.8                                     | 250                             | 406.1          | 207.8          |  |  |  |  |  |
| 70                              | 316.0   | 157.0                                     | 255                             | 407.7          | 208.7          |  |  |  |  |  |
| 72                              | 317.7   | 158.7                                     | 260                             | 409.4          | 209.7          |  |  |  |  |  |
| 74                              | 319.3   | 159.6                                     | 265                             | 411.0          | 210.6          |  |  |  |  |  |
| 76                              | 320.9   | 160.5                                     | 270                             | 412.6          | 211.4          |  |  |  |  |  |
| 78                              | 322.3   | 161.3                                     | 275                             | 414.2          | 202.3          |  |  |  |  |  |
| 80                              | 323.8   | 162.1                                     | 280                             | 415.7          | 213.2          |  |  |  |  |  |
| 85<br>90<br>95<br>100<br>105    | 327.6<br>331.2<br>334.6<br>337.8<br>341.1           | 164.2<br>166.2<br>168.1<br>169.9<br>171.7 | 300<br>350                      | 421.0<br>436.5 | 216.1<br>224.7 |  |  |  |  |  |

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

Washdown MARINE

FOOD Transfer

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

> SPRAY STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &

Discharge Washdown

WELDING

COUPLING SYSTEMS



AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL
HANDLING
Abrasives
Bulk Transfer
Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

**APPENDIX** 

# GENERAL INFORMATION

### **FLOW DATA**

This table may be used to determine the pressure loss in hose connected to rock drills and pneumatic tools. It is correct for hose with smooth inside lining. Hose with rough inside lining may have a friction loss of as much as 50% greater than the figures given in the table.

|   |  |  |   |  | AIR   | FLOW  | PRES  | SURE  | LOSS  |  |   |   |   |  |  |
|---|--|--|---|--|---|---|---|---|---|--|---|---|---|--|--|
|   |  |  |   |  |   |   | SATING  |   |   |  |   |   |   |  |  |
| Size of                                       | Gauge                                    |  |   |  |   | per minute                                    |   |   |   |  |   |   |   |  |  |
| Hose  | pressure<br>at line                      | 20                                     | 30  | 40   | 50  | 60  | 70  | 80  | 90  | 100  | 110   | 120   | 130   | 140                                    | 150                                    |
|   |  |  |   |  |   | in pounds                                     | s per squa                                    | re inch –                                     | 50 foot h                                     | ose length                                     |   |   |   |  |  |
| ½ in.<br>with<br>couplings<br>at each<br>end  | 50<br>60<br>70<br>80<br>90<br>100<br>110 | 1.8<br>1.3<br>1.0<br>.9<br>.8<br>.7    | 5.0<br>4.0<br>3.4<br>2.8<br>2.4<br>2.3<br>2.0 | 10.1<br>8.4<br>7.0<br>6.0<br>5.4<br>4.8<br>4.3 | 18.1<br>14.8<br>12.4<br>10.8<br>9.5<br>8.4<br>7.6 | 23.4<br>20.0<br>17.4<br>14.8<br>13.3<br>12.0  | 28.4<br>25.2<br>22.0<br>19.3<br>17.6          | 34.6<br>30.5<br>27.2<br>24.6                  | 41.0<br>36.6<br>33.3                          | 44.5   |   |   |   |  |  |
| % in.<br>with<br>couplings<br>at each<br>end  | 50<br>60<br>70<br>80<br>90<br>100<br>110 | .4<br>.3<br>.2<br>.2<br>.2<br>.2<br>.2 | .8<br>.6<br>.5<br>.5<br>.4<br>.4              | 1.5<br>1.2<br>.9<br>.8<br>.7<br>.6             | 2.4<br>1.9<br>1.5<br>1.3<br>1.1<br>1.0            | 3.5<br>2.8<br>2.3<br>1.9<br>1.6<br>1.4<br>1.3 | 4.4<br>3.8<br>3.2<br>2.8<br>2.3<br>2.0<br>1.8 | 6.5<br>5.2<br>4.2<br>3.6<br>3.1<br>2.7<br>2.4 | 8.5<br>6.8<br>5.5<br>4.7<br>4.0<br>3.5<br>3.1 | 11.4<br>8.6<br>7.0<br>5.8<br>5.0<br>4.4<br>3.9 | 14.2<br>11.2<br>8.8<br>7.2<br>6.2<br>5.4<br>4.9 | 11.0<br>8.8<br>7.5<br>6.6<br>5.9              | 10.6<br>9.0<br>7.9<br>7.1                     | 9.4<br>8.4                             | 11.1<br>9.9                            |
| 1 in.<br>with<br>couplings<br>at each<br>end  | 50<br>60<br>70<br>80<br>90<br>100<br>110 | .1<br>.1                               | .2<br>.2<br>.1<br>.1<br>.1<br>.1              | .3<br>.2<br>.2<br>.2<br>.2<br>.2               | .5<br>.4<br>.4<br>.3<br>.3<br>.2                  | .8<br>.6<br>.5<br>.5<br>.4<br>.4              | 1.1<br>.8<br>.7<br>.7<br>.6<br>.5             | 1.5<br>1.2<br>1.0<br>.8<br>.7<br>.6           | 2.0<br>1.5<br>1.3<br>1.1<br>.9<br>.8<br>.7    | 2.6<br>2.0<br>1.6<br>1.4<br>1.2<br>1.0         | 3.5<br>2.6<br>2.0<br>1.7<br>1.4<br>1.2<br>1.1   | 4.8<br>3.3<br>2.5<br>2.0<br>1.7<br>1.5<br>1.3 | 7.0<br>4.2<br>3.1<br>2.4<br>2.0<br>1.8<br>1.5 | 5.5<br>3.8<br>2.7<br>2.4<br>2.1<br>1.8 | 7.2<br>4.7<br>3.5<br>2.8<br>2.4<br>2.1 |
| 1¼ in.<br>with<br>couplings<br>at each<br>end | 50<br>60<br>70<br>80<br>90<br>100<br>110 |  |   | .1   | .2<br>.1<br>.1                                    | .2<br>.2<br>.2<br>.1<br>.1                    | .3<br>.3<br>.2<br>.2<br>.2<br>.2<br>.1        | .4<br>.3<br>.3<br>.2<br>.2<br>.2              | .5<br>.5<br>.4<br>.3<br>.3<br>.2              | .7<br>.6<br>.4<br>.4<br>.3<br>.3               | 1.1<br>.8<br>.5<br>.5<br>.4<br>.4<br>.3         | 1.0<br>.7<br>.6<br>.5<br>.4                   | 1.2<br>.8<br>.7<br>.6<br>.5                   | 1.5<br>1.0<br>.8<br>.7<br>.6           | 1.3<br>1.0<br>.8<br>.7                 |
| 1½ in.<br>with<br>couplings<br>at each<br>end | 50<br>60<br>70<br>80<br>90<br>100        |  |   |  |   |   | .1  | .2  | .2<br>.2<br>.1                                | .2<br>.2<br>.2<br>.1                           | .3<br>.2<br>.2<br>.2<br>.1                      | .3<br>.2<br>.2<br>.2<br>.2<br>.1              | .4<br>.3<br>.3<br>.2<br>.2<br>.2              | .5<br>.4<br>.3<br>.3<br>.2<br>.2       | .6<br>.5<br>.4<br>.4<br>.3<br>.2       |

For longer or shorter lengths of hose, the friction loss is proportional to the length, e.g., for 25 feet, half of the above; for 150 feet, three times the above, etc.



# GENERAL INFORMATION

| FLOW D                                       | ATA (conti                                  | nued)                               |                              |  |                                       |   |                                      |                                       |  |  | _ |
|--|---|-------------------------------------|------------------------------|--|---------------------------------------|---|--------------------------------------|---------------------------------------|--|--|---|
| <b>-</b> :                                   |   | VATER FI                            | OW PRE                       | SSURE I                                |                                       | SI per 10                                   |                                      |                                       |  |  |   |
| Flow of<br>water in<br>U.S. gal.<br>per min. | Flow of<br>water in<br>cu. feet<br>per sec. | 1/2                                 | 5/8                          | 3/4                                    | Actual Int                            | ernal Dian<br>1 <sup>1</sup> / <sub>4</sub> | neter, Inch $1^{1}/_{2}$             | es<br>2                               | 21/2                                   | 3                                      |   |
| 0.5<br>1.5<br>2.5<br>5<br>10                 | .001<br>.003<br>.005<br>.011<br>.022        | 0.4<br>3.02<br>7.75<br>27.8<br>99.5 | 1.01<br>2.58<br>9.27<br>33.2 | 0.42<br>1.08<br>3.86<br>13.8           | 0.95<br>3.38                          | 0.32<br>1.14                                | 0.13<br>0.47                         | 0.12                                  |  |  |   |
| 15<br>20<br>25<br>30<br>35                   | .033<br>.044<br>.055<br>.066<br>.077        |                                     | 71.0<br>121.0                | 29.6<br>50.3<br>76.5<br>108.0<br>142.0 | 7.25<br>12.4<br>18.7<br>26.5<br>34.8  | 2.45<br>4.15<br>6.34<br>8.96<br>11.8        | 1.01<br>1.71<br>2.60<br>3.68<br>4.83 | 0.25<br>0.42<br>0.64<br>0.90<br>1.18  | 0.08<br>0.14<br>0.22<br>0.30<br>0.40   | 0.13<br>0.17                           |   |
| 40<br>45<br>50<br>60<br>70                   | .088<br>.099<br>.110<br>.132<br>.154        |                                     |                              |  | 44.7<br>55.0<br>67.5<br>94.3<br>126.0 | 15.1<br>18.6<br>22.8<br>31.8<br>42.5        | 6.20<br>7.65<br>9.35<br>13.1<br>17.5 | 1.52<br>1.87<br>2.28<br>3.19<br>4.25  | 0.51<br>0.63<br>0.78<br>1.08<br>1.44   | 0.21<br>0.26<br>0.32<br>0.45<br>0.60   |   |
| 80<br>90<br>100<br>125<br>150                | .176<br>.198<br>.223<br>.278<br>.334        |                                     |                              |  |                                       | 54.6<br>67.5<br>81.5<br>124.0               | 22.5<br>27.8<br>33.5<br>50.6<br>72.1 | 5.48<br>6.80<br>8.19<br>12.4<br>17.6  | 1.86<br>2.30<br>2.78<br>4.20<br>6.97   | 0.77<br>0.95<br>1.15<br>1.73<br>2.46   |   |
| 175<br>200<br>225<br>250<br>275              | .390<br>.446<br>.501<br>.557<br>.613        |                                     |                              |  |                                       |   | 94.5<br>122.0                        | 23.1<br>29.6<br>36.8<br>44.6<br>53.3  | 7.83<br>10.1<br>12.5<br>15.2<br>18.1   | 3.23<br>4.15<br>5.15<br>6.28<br>7.45   |   |
| 300<br>325<br>350<br>375<br>400              | .688<br>.724<br>.780<br>.836<br>.891        |                                     |                              |  |                                       |   |                                      | 62.5<br>72.5<br>83.2<br>94.5<br>107.0 | 21.2<br>24.6<br>28.2<br>32.1<br>36.2   | 8.75<br>10.2<br>11.7<br>13.3<br>14.9   |   |
| 450<br>500<br>600<br>700<br>800              | 1.00<br>1.11<br>1.34<br>1.56<br>1.78        |                                     |                              |  |                                       |   |                                      |                                       | 44.9<br>54.5<br>76.5<br>102.0<br>131.0 | 18.6<br>22.5<br>31.6<br>42.1<br>53.9   |   |
| 900<br>1000<br>1100<br>1200<br>1300          | 2.00<br>2.23<br>2.45<br>2.67<br>2.90        |                                     |                              |  |                                       |   |                                      |                                       |  | 66.8<br>81.4<br>97.0<br>114.0<br>132.0 |   |
| 1400<br>1500<br>1600<br>1800<br>2000         | 3.12<br>3.34<br>3.56<br>4.01<br>4.45        |                                     |                              |  |                                       |   |                                      |                                       |  |  |   |

Note: The pressure loss experienced by a liquid flowing through a hose depends on the rate of flow, the viscosity of the liquid, the hose ID, the smoothness of the tube, and the hose length. This chart shows the relationship between rate of flow, ID, and pressure loss for water at 68°F with a viscosity of one centipoise. The pressure is directly proportional to the length of the hose, therefore, the data shown can be easily extended by use of proportions, e.g., the pressure drop for 50 feet of hose length is half that for 100 feet.



AIR & MULTIPURPOSE General Purpose Heavy Duty

CHEMICAL TRANSFER

Push-on

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

MATERIAL

HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM VACUUM

VEYANCE

WATER

Suction & Discharge

Washuow

WELDING

COUPLING SYSTEMS

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdown

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

SPRAY

STEAM

VACUUM

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

COUPLING SYSTEMS

APPENDIX

# GENERAL INFORMATION

| FLOW D   | ATA (contii  | nued)                                |                                       |                                       |                                       |                                      |   |  |
|--|--|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---|--|
|  | W  | ATER FLOW                            | PRESSUR                               | E LOSS (P                             | SI per 100                            | feet of ho                           | se)   |  |
|  | Flow of<br>water in                                |                                      |                                       | Actual In                             | ternal Diame                          | ter, Inches                          |   |  |
|  | cu. feet<br>per sec.                               | 4                                    | 6                                     | 8                                     | 10                                    | 12                                   | 14  | 16   |
| 100<br>125<br>150<br>175<br>200                    | .223<br>.278<br>.334<br>.390<br>.446               | .26<br>.40<br>.54<br>.70<br>.90      | .10<br>.13                            |                                       |                                       |                                      |   |  |
| 225<br>250<br>275<br>300<br>325                    | .501<br>.557<br>.613<br>.668<br>.724               | 1.08<br>1.34<br>1.60<br>1.84<br>2.04 | .16<br>.19<br>.24<br>.28<br>.33       |                                       |                                       |                                      |   |  |
| 350<br>375<br>400<br>425<br>450                    | .780<br>.836<br>.891<br>.947<br>1.00               | 2.30<br>2.80<br>3.10<br>3.40<br>3.80 | .37<br>.44<br>.49<br>.54<br>.60       |                                       |                                       |                                      |   |  |
| 475<br>500<br>550<br>600<br>650                    | 1.06<br>1.11<br>1.22<br>1.34<br>1.45               | 4.25<br>4.60<br>5.60<br>6.60<br>7.60 | .70<br>.78<br>.93<br>1.10<br>1.30     | .16<br>.18<br>.23<br>.27              |                                       |                                      |   |  |
| 700<br>750<br>800<br>850<br>900                    | 1.56<br>1.67<br>1.78<br>1.89<br>2.00               | 8.60<br>9.60<br>10.80<br>12.00       | 1.50<br>1.70<br>1.90<br>2.20<br>2.40  | .30<br>.34<br>.39<br>.44<br>.49       |                                       |                                      |   |  |
| 950<br>1000<br>1100<br>1200<br>1300                | 2.12<br>2.23<br>2.45<br>2.67<br>2.90               |                                      | 2.60<br>2.80<br>3.20<br>3.70<br>4.50  | .54<br>.59<br>.66<br>.74<br>.88       | .19<br>.23<br>.27<br>.31              |                                      |   |  |
| 1400<br>1500<br>1600<br>1800<br>2000               | 3.12<br>3.34<br>3.56<br>4.01<br>4.45               |                                      | 5.30<br>6.20<br>7.00<br>8.80<br>16.50 | 1.10<br>1.25<br>1.40<br>1.80<br>2.20  | .35<br>.40<br>.45<br>.54<br>.64       | .15<br>.17<br>.19<br>.24<br>.29      | .14   |  |
| 2500<br>3000<br>3500<br>4000<br>4500               | 5.57<br>6.68<br>7.80<br>8.91<br>10.03              |                                      |                                       | 3.40<br>4.50<br>6.20<br>8.20<br>10.20 | .98<br>1.40<br>1.90<br>2.40<br>3.00   | .42<br>.58<br>.79<br>1.00<br>1.25    | .21<br>.29<br>.39<br>.50<br>.62               | .14<br>.18<br>.23<br>.28                     |
| 5000<br>6000<br>7000<br>8000<br>9000               | 11.14<br>13.37<br>15.60<br>17.82<br>20.05          |                                      |                                       |                                       | 3.80<br>5.20<br>7.00<br>9.20<br>11.50 | 1.50<br>2.10<br>2.80<br>3.70<br>4.60 | .74<br>1.10<br>1.40<br>1.80<br>2.30           | .34<br>.46<br>.62<br>.80<br>1.00             |
| 10000<br>12000<br>14000<br>16000<br>18000<br>20000 | 22.28<br>26.74<br>31.19<br>35.65<br>40.10<br>44.56 |                                      |                                       |                                       |                                       | 5.70<br>6.70<br>10.00<br>13.50       | 2.80<br>3.70<br>5.00<br>6.80<br>8.80<br>11.00 | 1.25<br>1.70<br>2.40<br>3.30<br>4.40<br>5.50 |



# GENERAL INFORMATION

### **OPEN-END DISCHARGE**

The term "open-end discharge" refers to a hose which empties a fluid into the atmosphere. Even though one end is open, the pressure is not low throughout the hose.

The inlet end pressure is equal to that in the line to which the hose is connected unless the flow rate is so low that the hose is not completely filled. The pressure along the hose length drops from a maximum at the inlet to zero at the outlet and the pressure at any given point along the length is nearly proportional to the distance from the hose inlet.

The following table shows the flow in gallons per minute for various sizes of hoses in open-end discharge service.

|      | OPEN-END FLOW (GPM)   |      |      |      |        |         |      |      |      |                       |           |       |                |        |                |       |       |       |              |
|------|-----------------------|------|------|------|--------|---------|------|------|------|-----------------------|-----------|-------|----------------|--------|----------------|-------|-------|-------|--------------|
|      | Pressure<br>at Inlet, |      |      | Hos  | e Leng | th, fee | t    |      |      | Pressure<br>at Inlet, |           |       |                | Hose L | ength,         | feet  |       |       |              |
|      | psi ,                 | 25   | 50   | 75   | 100    | 125     | 150  | 200  | 300  |                       | psi       | 25    | 50             | 75     | 100            | 125   | 150   | 200   | 300          |
|      | 30                    | 10.4 | 6.2  | 5.6  | 4.8    | 4.3     | 3.8  | 3.3  | 2.6  |                       | 30        | 68.0  | 46.2           | 37.5   | 32.0           | 28.5  | 25.8  | 22.0  | 17.8         |
|      | 40                    | 12.1 | 8.5  | 6.2  | 5.6    | 5.0     | 4.5  | 3.8  | 3.2  |                       | 40        | 79.0  | 54.4           | 44.0   | 37.5           | 33.0  | 30.0  | 25.8  | 20.8         |
|      | 50                    | 13.8 | 9.4  | 7.5  | 6.4    | 5.6     | 5.1  | 4.0  | 3.5  |                       | 50        | 89.0  | 62.0           | 49.0   | 42.0           | 37.5  | 34.0  | 29.0  | 23.3         |
|      | 60                    | 15.2 | 10.4 | 8.5  | 7.1    | 6.2     | 5.6  | 4.9  | 3.8  |                       | 60        | 100.0 | 68.0           | 54.4   | 46.2           | 41.8  | 37.5  | 32.0  | 25.8         |
| 1/2" | 70                    | 16.6 | 11.2 | 9.0  | 7.8    | 6.8     | 6.2  | 5.3  | 4.2  | 1″                    | 70        | _     | 74.0           | 59.0   | 51.0           | 45.0  | 40.8  | 37.3  | 28.0         |
| hose | 80                    | 18.0 | 12.1 | 9.8  | 8.5    | 7.3     | 6.6  | 5.6  | 4.5  | hose                  | 80        | _     | 79.0           | 63.0   | 54.4           | 48.0  | 43.0  | 37.5  | 30.0         |
|      | 90                    | 19.0 | 13.0 | 10.4 | 8.8    | 7.7     | 7.1  | 6.0  | 4.8  |                       | 90        | _     | 84.0           | 68.0   | 58.0           | 51.8  | 46.2  | 40.0  | 32.0         |
|      | 100                   | 20.1 | 13.8 | 11.0 | 9.4    | 8.5     | 7.5  | 6.4  | 4.9  |                       | 100       | _     | 89.0           | 71.0   | 62.0           | 54.4  | 49.0  | 42.0  | 34.0         |
|      | 125                   | 22.8 | 15.5 | 12.5 | 10.5   | 9.4     | 8.5  | 7.2  | 5.8  |                       | 125       | _     | 101.0          | 80.0   | 68.0           | 62.0  | 55.8  | 47.8  | 38.0         |
|      | 30                    | 18.1 | 12.5 | 10.3 | 8.7    | 7.7     | 7.0  | 6.0  | 4.9  |                       | 50        | _     | 110.0          | 85.0   | 72.0           | 56.0  | 58.0  | 50.0  | 42.0         |
|      | 40                    | 21.4 | 14.8 | 12.5 | 10.3   | 9.0     | 8.3  | 7.0  | 5.7  | 11/4"                 | 75        | _     | 130.0          | 110.0  | 90.0           | 80.0  | 73.0  | 64.0  | 52.0         |
|      | 50                    | 23.9 | 16.5 | 13.2 | 11.4   | 10.3    | 9.2  | 7.9  | 6.3  | hose                  | 100       | _     | 150.0          | 125.0  | 110.0          | 92.0  | 85.0  | 73.0  | 58.0         |
|      | 60                    | 26.5 | 18.1 | 14.8 | 12.5   | 11.2    | 10.3 | 8.7  | 7.0  |                       | 150       | _     | _              | 150.0  | 130.0          | 120.0 | 110.0 | 90.0  | 67.0         |
| 5/8" | 70                    | 27.5 | 20.0 | 16.0 | 13.7   | 12.0    | 11.0 | 10.0 | 7.6  |                       | 50        |       | 140.0          | 115.0  | 00.0           | 05.0  | 75.0  | 05.0  | 540          |
| hose | 80                    | 30.6 | 21.4 | 16.8 | 14.8   | 13.0    | 11.8 | 10.3 | 8.3  | 13%″                  | 50        | _     | 140.0          | 115.0  | 96.0           | 85.0  | 75.0  | 65.0  | 54.0         |
|      | 90                    | 32.5 | 22.5 | 18.1 | 15.5   | 14.0    | 12.5 | 10.5 | 8.7  |                       | 75<br>100 | _     | 170.0<br>205.0 |        | 125.0<br>140.0 |       | 96.0  | 84.0  | 67.0         |
|      | 100                   | 34.5 | 23.9 | 19.0 | 16.6   | 14.8    | 13.2 | 11.4 | 9.2  | hose                  | 150       | _     | 203.0          |        | 170.0          |       |       | 96.0  | 75.0<br>97.0 |
|      | 125                   | 39.0 | 27.0 | 21.5 | 18.5   | 16.6    | 15.0 | 12.9 | 10.5 |                       | 130       |       |                | 203.0  | 170.0          | 133.0 | 140.0 | 123.0 | 37.0         |
|      | 30                    | 31.0 | 21.3 | 17.2 | 14.8   | 13.0    | 11.8 | 10.2 | 8.2  |                       | 50        | _     | 180.0          | 150.0  | 130.0          | 120.0 | 105.0 | 90.0  | 74.0         |
|      | 40                    | 36.0 | 25.0 | 20.0 | 17.2   | 15.2    | 13.8 | 11.8 | 9.4  | 11/5"                 | 75        | _     | 230.0          | 180.0  | 160.0          | 145.0 | 130.0 | 120.0 | 90.0         |
|      | 50                    | 41.0 | 28.0 | 22.5 | 19.2   | 17.2    | 15.5 | 13.2 | 10.7 | hose                  | 100       | _     | 260.0          | 220.0  | 180.0          | 170.0 | 150.0 | 130.0 | 105.0        |
|      | 60                    | 45.5 | 31.0 | 25.0 | 21.3   | 19.0    | 17.2 | 14.8 | 11.8 |                       | 150       | _     | _              | 260.0  | 230.0          | 205.0 | 180.0 | 160.0 | 130.0        |
| 3/4" | 70                    | 49.5 | 34.0 | 27.2 | 23.5   | 21.0    | 18.8 | 17.1 | 12.8 |                       |           |       |                |        |                |       |       |       |              |
| hose | 80                    | 53.0 | 36.0 | 29.1 | 25.0   | 22.0    | 20.0 | 17.2 | 13.8 | 0″                    | 50        | _     | 380.0          |        | 270.0          |       |       |       |              |
|      | 90                    | 56.2 | 39.0 | 31.0 | 27.0   | 23.8    | 21.3 | 18.2 | 14.8 | 2″                    | 75        | _     | 480.0          | 380.0  |                | 290.0 |       |       |              |
|      | 100                   | 60.0 | 41.0 | 33.0 | 28.0   | 25.0    | 22.6 | 19.2 | 15.5 | hose                  | 100       | _     | 550.0          | 450.0  |                | 350.0 |       |       |              |
|      | 125                   | 68.0 | 46.0 | 37.5 | 32.0   | 23.0    | 25.8 | 21.8 | 17.5 |                       | 125       | _     | _              | 550.0  | 480.0          | 425.0 | 380.0 | 330.0 | 265.0        |

AIR & MULTIPURPOSE
General Purpose
Heavy Duty
Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

> FOOD Transfer Washdown

> > MARINE

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MINING

PETROLEUM Aircraft Fueling Dispensing Dock Transfer

**SPRAY** 

STEAM

VACUUM

VEYANCE

WATER
Discharge
Suction &
Discharge
Vashdown

WELDING

COUPLING SYSTEMS



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**VACUUM** 

**VEYANCE** 

WATER
Discharge
Suction &
Discharge
Washdown

WELDING

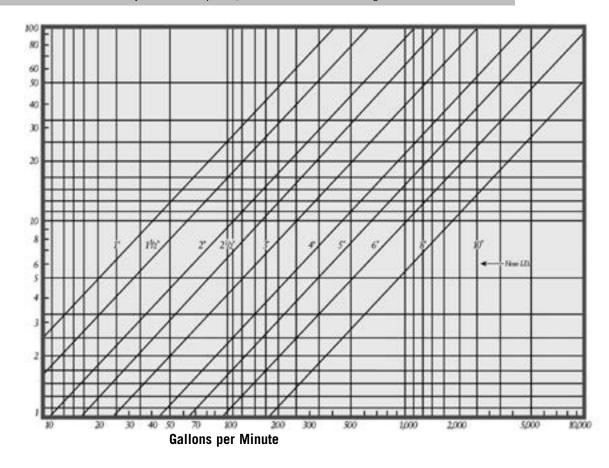
COUPLING SYSTEMS

APPENDIX

# GENERAL INFORMATION

### FLUID VELOCITY VS. FLOW RATE

The graph below illustrates the fluid velocity for flow rates up to 10,000 GPM for hose from 1" through 10" ID





# GENERAL INFORMATION

### RMA OIL AND GASOLINE RESISTANCE

Rubber hose is used to convey petroleum products both in the crude and refined stages. The aromatic content of refined gasoline is often adjusted to control the octane rating. The presence of aromatic hydrocarbons in this fuel generally has a greater effect on rubber components than do aliphatic hydrocarbons. Aromatic materials in contact with rubber tend to soften it and reduce its physical properties. For long-lasting service, the buyer of gasoline hose should inform the hose manufacturer of the aromatic content of the fuel to be handled so that the proper tube compound can be recommended for the specific application.

The effects of oil on rubber depend on a number of factors that include the type of rubber compound the composition of the oil, the temperature and time of exposure. Rubber compounds can be classified as to their degree of oil resistance based on their physical properties after exposure to a standard test fluid. In this RMA classification, the rubber samples are immersed in IRM 903 oil at 100°C for 70 hours. (See ASTM Method D-471 for a detailed description of the oil and the testing procedure.) As a guide to the user of hose in contact with oil, the oil resistance classes and a corresponding description are listed.

(Reprinted From RMA Hose Handbook IP-2 2003 Edition)

| PHYSICAL PROPERTIES AFTER EXPOSURE TO OIL |                          |                              |  |  |  |  |  |  |
|---|--------------------------|------------------------------|--|--|--|--|--|--|
|   | VOLUME CHANGE<br>MAXIMUM | TENSILE STRENGTH<br>RETAINED |  |  |  |  |  |  |
| Class A (High Oil Resistance)             | +25%                     | 80%                          |  |  |  |  |  |  |
| Class B (Medium Oil Resistance)           | +65%                     | 50%                          |  |  |  |  |  |  |
| Class C (Limited Oil Resistance)          | +100%                    | 40%                          |  |  |  |  |  |  |

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# GENERAL INFORMATION

### **FOOD HOSE STANDARDS**

### **FDA Compliant**

All Goodyear Engineered Products hoses having the "FDA" designation have tubes made with FDA/USDA compliant materials. The requirements for rubber tubes are described in the Code of Federal Regulations standard 21 CFR 177.2600 while plastic tubes are described in 21 CFR 175.300.

### NSF 61

Clear Pliovic® tubes are certified as meeting the NSF 61 potable water standard.

### 3-A Sanitary

All Goodyear Engineered Products rubber hoses having the "3-A" designation meet the requirements of the dairy industrial standard described in 3-A Sanitary Standard 18-03, Class III which determines rubber materials suitable for temperature of exposure to product up to 120°F and temperature of exposure to chemical solutions used in cleaning and bacterial treatment up to 180°F.

All Goodyear Engineered Products plastic hoses having the "3-A" designation meet the requirements of the dairy industrial standard described in 3-A Sanitary Standard 20-20 and are recommended for transmission of raw and pasteurized milk and other high water content dairy items.

In order to ensure compliance with the above standards, all Goodyear Engineered Products hoses shall be thoroughly cleansed prior to their first use in accordance with good manufacturing and use practices.



# GENERAL INFORMATION

### PRECAUTIONS FOR WELDING HOSE USE

FOREWORD: This bulletin is issued to alert dealers and users of welding hose that special hose may be necessary for

use with certain fuel gases.

**SCOPE:** This bulletin relates to welding hose manufactured in conformance to RMA/CGA specification or to welding

hose conforming to individual manufacturer or user specifications.

**CAUTION:** The fuel gases listed below are recorded to alert welding hose users to a potential hazard with these or

similar gases. It should be noted that no condemnation of any of the gases listed is intended. The purpose is to advise against the use of hose that may not be designed for a particular gas or pressure. A user of any fuel gas is urged to relate the type of gas along with the expected working pressure (regulator setting) to the

hose manufacturer for a specific hose recommendation.

**ALERT LISTING:** These and similar fuel gases may damage some grades or types of welding hose:

APACHI, FLAMEX, MAPP, PROPANE, PROPYLENE.

Use of the indicated or similar fuel gases at regulator settings above 40 psi may be particularly hazardous.

Users are also alerted against the use of ACETYLENE at any pressure above 15 psi.

### **IN-SERVICE CAUTION:**

The user is first cautioned to shut off the gas at the torch and then at the regulator or supply source when the torch will not be used for periods in excess of 30 minutes, in order to limit permeation of gas through the hose wall.

The user is further cautioned not to shut off the fuel gas at the regulator or supply source first as a flashback may result and thereby damage the hose.

Adequate ventilation must be provided in confined areas where fuel gas is being used to prevent the accumulation or concentration of gas that could be explosive or otherwise harmful to personnel.

### **WARNING:**

THE USE OF CERTAIN FUEL GASES MAY DAMAGE WELDING HOSE AND LEAD TO FIRES AND EXPLOSIONS.

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> CHEMICAL TRANSFER

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# APPENDIX D

AIR & MULTIPURPOSE Heavy Duty Push-on

**CHEMICAL TRANSFER** 

**EQUIPMENT** 

FOOD Washdown

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**SPRAY** 

STEAM

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WATER Suction & Washdown

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# GENERAL INFORMATION

DECENTED A DITTION DESCRIPTION DESCRIPTION

| ORDER CODE<br>PREFIX | MANUFACTURING FACILITY | SIZE (ID)   | CONSTRUCTION               | MINIMUM PRODUCTION RUN           |
|----------------------|------------------------|-------------|----------------------------|----------------------------------|
| 532                  | Norfolk                | 3/16″–2″    | Textile Reinforcement      | 2,500 feet                       |
|                      |                        | 3/16″–2″    | Wire Reinforcement         | 2,500 feet                       |
| 535                  | Norfolk                | 3/16″–1/2″  | Textile Reinforcement      | 5,000 feet                       |
|                      |                        | 5/8″–2″     |                            | 2,500 feet                       |
| 536                  | Norfolk                | 3/16″–1/2″  | Textile Reinforcement      | 2,500 feet                       |
|                      |                        | 5/8″–2″     |                            | 2,500 feet                       |
| 537                  | Cosmoflex              | 11/4"-11/2" |                            | 4,500 feet                       |
|                      |                        | 2″          |                            | 4,500 feet                       |
|                      |                        | 21/2"-3"    |                            | 4,500 feet                       |
|                      |                        | 4″          |                            | 3,300 feet                       |
|                      |                        | 6″          |                            | 1,800 feet                       |
| 539                  | Norfolk                | 3/16″–1/2″  | Wire Reinforcement         | 5,000 feet                       |
|                      |                        | 5/8″–2″     |                            | 2,500 feet                       |
| 540                  | Cosmoflex              | 1/4″–3/8″   |                            | 15,000 feet                      |
|                      |                        | 1/2″–1″     |                            | 5,000 feet                       |
| 541                  | Granford               | 1″–12″      | Hand Built                 | Built to length, Max 100'        |
|                      |                        | 12″–18″     | Hand Built                 | Built to length, Max 50'         |
| 542                  | Granford               | 1/2″-65/8″  | Ply or Ply with Helic Wire | 400 feet increments <sup>1</sup> |
| 543                  | Granford               | 1/2″-65/8″  | Ply or Ply with Helic Wire | 400 feet increments <sup>1</sup> |
| 546                  | Granford               | 1/2″-65/8″  | Ply or Ply with Helic Wire | 400 feet increments <sup>1</sup> |
| 549                  | Granford               | 1/2″-65/8″  | Ply or Ply with Helic Wire | 400 feet increments <sup>1</sup> |
| 569*                 | Mt. Pleasant           | 3/16″-11/2″ |                            | 5,000 feet                       |
| 586                  | Cosmoflex              | 3/4″–1″     |                            | 3,000 feet                       |
|                      |                        | 11/4″-2″    |                            | 2,000 feet                       |
|                      |                        | 21/2"-3"    |                            | 1,000 feet                       |
|                      |                        | 4″          |                            | 700 feet                         |
|                      |                        | 5″          |                            | 500 feet                         |
|                      |                        | 6″          |                            | 300 feet                         |
|                      |                        | 7″          |                            | 200 feet                         |
|                      |                        | 8″–10″      |                            | 200 feet                         |
| 595*                 | Mt. Pleasant           | 3/16″–1/2″  |                            | 5,000 feet                       |
|                      |                        | 5/8″–1″     |                            | 5,000 feet                       |
|                      |                        | 11/4"-2"    |                            | 5,000 feet                       |
| 598*                 | Mt. Pleasant           | 3/16″–1/2″  |                            | 5,000 feet                       |
|                      |                        | 5/8″–1″     |                            | 5,000 feet                       |
|                      |                        | 11/4"-2"    |                            | 5,000 feet                       |

Note: Certain special manufacturing items may require longer minimum runs.

Samples: Contact Customer Service for sample availability.



<sup>\*</sup>Minimum production runs are a guide only, they are subject to change without notification.

¹Granford hoses with ply/helic wire construction in 6" ID and above require a 200' increment production run.

# GENERAL INFORMATION

### CARE, MAINTENANCE AND STORAGE

Reprinted from RMA Hose Handbook IP-2 Seventh Edition 2003

Hose has a limited life and the user must be alert to signs of impending failure, particularly when the conditions of service include high working pressures and/or the conveyance or containment of hazardous materials. The periodic inspection and testing procedures described here provide a schedule of specific measures which constitute a minimum level of user action to detect signs indicating hose deterioration or loss of performance before conditions leading to malfunction or failure are reached.

### **SAFETY WARNING:**

Failure to properly follow the manufacturer's recommended procedures for the care, maintenance and storage of a particular hose might result in its failure to perform in the manner intended and might result in possible damage to property and serious bodily injury.

General instructions are also described for the proper storage of hose to minimize deterioration from exposure to elements or environments which are known to be deleterious to rubber products. Proper storage conditions can enhance and extend substantially the ultimate life of hose products.

### **General Care and Maintenance**

Hose should not be subjected to any form of abuse in service. It should be handled with reasonable care. Hose should not be dragged over sharp or abrasive surfaces unless specifically designed for such service. Care should be taken to protect hose from severe end loads for which the hose or hose assembly were not designed. Hose should be used at or below its rated working pressure; any changes in pressure should be made gradually so as not to subject the hose to excessive surge pressures. Hose should not be kinked or be run over by equipment. In handling large size hose, dollies should be used whenever possible; slings or handling rigs, properly placed, should be used to support heavy hose used in oil suction and discharge service.

### **General Test & Inspection Procedures**

An inspection and hydrostatic test should be made at periodic intervals to determine if a hose is suitable for continued service. A visual inspection of the hose should be made for loose covers, kinks, bulges or soft spots which might indicate broken or displaced reinforcement. The couplings or fittings should be closely examined and, if there is any sign of movement of the hose from the couplings, the hose should be removed from service.

The periodic inspection should include a hydrostatic test for one minute at 150% of the recommended working pressure of the hose. An exception to this would be the woven jacketed fire hose.\* During the hydrostatic test, the hose should be straight, not coiled or in a kinked position. Water is the usual test medium and, following the test, the hose may be flushed with

alcohol to remove traces of moisture. A regular schedule for testing should be followed and inspection records maintained. SAFETY WARNING: Before conducting any pressure tests on hose, provisions must be made to ensure the safety of the personnel performing the tests and to prevent any possible damage to property. Only trained personnel using proper tools and procedures should conduct any pressure tests.

- 1. Air or any other compressible gas must never be used as the test media because of the explosive action of the hose should a failure occur. Such a failure might result in possible damage to property and serious bodily injury.
- an outlet valve while the hose is being filled with the test medium.
- 3. Hose to be pressure tested must be restrained by placing steel rods or straps close to each end and at approximate 10-foot (3m) intervals along its length to keep the hose from "whipping" if failure occurs; the steel rods or straps are to be anchored firmly to the test structure but in such a manner that they do not contact the hose which must be
- blown-out fitting will be stopped.
- 5. Provisions must be made to protect testing personnel from the forces of the pressure media if a failure occurs.
- the ends of a hose being pressure tested.

Continued on next page

2. Air should be removed from the hose by bleeding it through

- free to move. 4. The outlet end of the hose is to be bulwarked so that a
- 6. Testing personnel must never stand in front of or in back of

\*WovenjacketfirehoseshouldbetestedinaccordancewiththeservicetestprovisionscontainedinthecurrenteditionofNationalFireProtection Association Bulletin No. 1962 - Standard for the Care, Use and Service Testing of Fire Hose.



AIR & **MULTIPURPOSE** Heavy Duty

> **CHEMICAL** TRANSFER

**CLEANING EQUIPMENT** 

> FOOD Transfer

> > MARINE

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MINING

PETROLEUM

**SPRAY** 

STEAM

VACUUM

**VEYANCE** 

Suction &

WELDING

COUPLING

# APPENDIX E

AIR & MULTIPURPOSE General Purpose Heavy Duty Push-on

CHEMICAL TRANSFER

CLEANING EQUIPMENT

FOOD Transfer Washdowr

MARINE

MATERIAL HANDLING Abrasives Bulk Transfer Cement & Concrete

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Dock
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### CARE, MAINTENANCE AND STORAGE (continued)

7. When liquids such as gasoline, oil, solvent or other hazardous fluids are used as the test fluid, precautions must be taken to protect against fire or other damage should a hose fail and the test liquid be sprayed over the surrounding area.

The Rubber Manufacturers Association has published separately a series of Hose Technical Information bulletins describing Maintenance, Testing and Inspection recommendations. Reference should be made to the current RMA Catalog of Publications to determine the availability of the latest edition. Bulletins published as of January 2003 include the following:

### Publication No.

IP 11-1-Steam Hose

IP 11-2-Anhydrous Ammonia Hose

IP 11-4- Oil Suction and Discharge Hose

IP 11-5-Welding Hose

IP 11-7-Chemical Hose

IP 11-8- Fuel Dispensing Hose

### **Storage**

Rubber hose products in storage can be affected adversely by temperature, humidity, ozone, sunlight, oils, solvents, corrosive liquids and fumes, insects, rodents and radioactive materials.

The appropriate method for storing hose depends to a great extent on its size (diameter and length), the quantity to be stored and the way in which it is packaged. Hose should not be piled or stacked to such an extent that the weight of the stack creates distortions on the lengths stored at the bottom. Since hose products vary considerably in size, weight and length, it is not practical to establish definite recommendations on this point. Hose having a very light wall will not support as much load as could a hose having a heavier wall or hose having a wire reinforcement. Hose which is shipped in coils or bales should be stored so that the coils are in a horizontal plane.

Whenever feasible, rubber hose products should be stored in their original shipping containers, especially when such containers are wooden crates or cardboard cartons which provide some protection against the deteriorating effects of oils, solvents and corrosive liquids; shipping containers also afford

some protection against ozone and sunlight. Certain rodents and insects will damage rubber hose products, and adequate protection from them should be provided.

Cotton-jacketed hose should be protected against fungal growths if the hose is to be stored for prolonged periods in humidity conditions in excess of 70%.

The ideal temperature for the storage of rubber products ranges from 50°F to 70°F (10°C to 21°C) with a maximum limit of 100°F (38°C). If stored below 32°F (0°C), some rubber products become stiff and would require warming before being placed in service. Rubber products should not be stored near sources of heat, such as radiators, base heaters, etc., nor should they be stored under conditions of high or low humidity.

To avoid the adverse effects of high ozone concentration, rubber hose products should not be stored near electrical equipment that may generate ozone or be stored for any lengthy period in geographical areas of known high ozone concentration. Exposure to direct or reflected sunlight, even through windows, should also be avoided. Uncovered hose should not be stored under fluorescent or mercury lamps which generate light waves harmful to rubber.

Storage areas should be relatively cool and dark, and free of dampness and mildew. Items should be stored on a first-in, first-out basis, since even under the best of conditions, an unusually long shelf life could deteriorate certain rubber products.

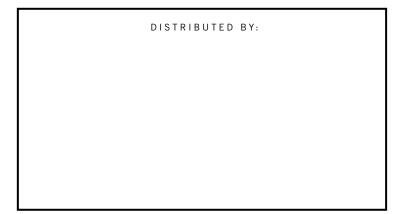


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