



# LEADERSHIP PERFORMANCE SUSTAINABILITY

AEROSPACE & AVIATION



MILITARY & AUTOMOTIVE



MANUFACTURING & FOOD



UTILITY & INDUSTRIAL

# iS (eyes) - Identification System

## Packaging Icons

- DETEX™ - Contains metal detectable aerosol plastic components
- Oversized E-Z Spray Nozzle
- Power Blast Spray: High spray delivery application
- Inverta Spray Valve: For hard-to-reach areas, this valve allows you to spray in upright and inverted positions

## Environmental Icons

- A product with no VOC (Volatile Organic Compounds) content based on Federal Consumer Product Regulations
- A product with VOC content  $\leq 10\%$  based on Federal Consumer Product Regulations
- Meets California Air Resources Board (CARB) VOC regulations for consumer products
- Meets 2006 Ozone Transport Commission (OTC) model rules for consumer products
- No hazardous air pollutants

## Product Icons

- NSF® Nonfood Compounds Registration: NSF® is a continuation of the USDA product approval and listing program for chemical products which can be used in food plants
- Acceptable for use in Canadian Food Processing Establishments
- Biodegradable contents
- No chlorinated solvents
- Non-conductive
- Non-flammable
- Low toxicity
- Product is safe to use on plastics
- PTFE (polytetrafluoroethylene): reduces friction, wear, and energy consumption of machinery
- Products which do not contain silicone

- Displaces moisture
- Product can withstand low temperatures
- Product can withstand high temperatures
- Product can withstand extreme pressures
- Meets NLGI 1.5 or 2 (National Lubricating Grease Institute) standards
- Meets NLGI 1.5 or 2 (National Lubricating Grease Institute) standards
- Fast evaporating product
- Product leaves no residue after use
- Product has no odor
- Product has very little odor



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# CONSOLIDATION PROGRAM

## BEFORE



## AFTER



## DOCUMENTED COST SAVINGS

ELIMINATE DUPLICATE INVENTORY  
REDUCE HEALTH & SAFETY ISSUES  
SIMPLIFY PURCHASE ORDERS  
MAKE SELECTION EASIER  
REMOVE USER CONFUSION  
ELIMINATE VENDORS  
SAVE SPACE

Take advantage of this FREE MRO Chemical Consolidation Analysis by calling us today!

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WEBSITE: [WWW.LPSLABS.COM](http://WWW.LPSLABS.COM)

# FOOD PROCESSING DEFINITIONS

## FOOD PROCESSING AREAS

The following products with H1 registration can be used in the food processing areas while the equipment is in operation.



### LUBRICANTS WITH INCIDENTAL CONTACT

These compounds may be used as a lubricant with incidental food contact for use in official establishments operating under the Federal meat and poultry products inspection program. Such compounds may be used on food processing equipment as a protective anti-rust film, as a release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment in locations in which there is potential exposure of the lubricated part to food. The amount used should be the minimum required to accomplish the desired technical effect on the equipment. If used as an anti-rust film, the compounds must be removed from the equipment surface by washing or wiping, as required to leave the surface effectively free of any substance which could be transferred to food being processed.

#### LPS® PRODUCTS:

- **FOOD GRADE CHAIN LUBRICANT**
- **FOOD GRADE SILICONE LUBRICANT**
- **THERMAPLEX® FOODLUBE** Bearing Grease
- **FOOD GRADE Anti-Seize**
- **HEAVY-DUTY SILICONE LUBRICANT**
- **FOOD GRADE MACHINE OIL**
- **CLEAR PENETRATING GREASE**
- **BELT DRESSING**

## NON-FOOD PROCESSING AREAS

The following products can be used in food plants, but not in the food processing areas.



### GENERAL USE CLEANER

Compounds for use as general cleaning agents on all surfaces, or for use with steam or mechanical cleaning devices in all departments. Before using these compounds, food products and packaging materials must be removed from the room or carefully protected. After using these compounds, surfaces must be thoroughly rinsed with potable water.

#### LPS® PRODUCTS:

- **T-91™** Non-Solvent Degreaser



### GENERAL CLEANERS WITH NO FOOD CONTACT

Compounds for use on all surfaces in inedible food product processing areas, nonprocessing areas, and/or exterior areas.

These compounds must not be used to mask odors resulting from unsanitary conditions. They must be used in a manner which prevents penetration of any characteristic odor or fragrance into edible product areas. Compounds containing isomers of dichlorobenzene, or other substances toxic by inhalation, may be used only in areas where there is adequate ventilation to prevent accumulation of hazardous vapors.

Permission for the use of these compounds on loading docks and other similar areas is left to the discretion of the Inspectors in Charge of the plants.

#### LPS® PRODUCTS:

- **A-151** Solvent Degreaser
- **EVR** Clean Air Solvent Degreaser
- **PRECISION CLEAN** Multi-Purpose Cleaner/Degreaser
- **BFX** All Purpose Cleaner
- **G-49™** Orange Degreaser Low VOCs
- **PRESOLVE®** Orange Degreaser
- **EM-CITRO** Emulsion Degreaser
- **INSTANT SUPER DEGREASER**
- **ZEROTRI®** Heavy-Duty Degreaser



### LUBRICANTS WITH NO FOOD CONTACT

These compounds may be used as a lubricant, release agent, or antirust film on equipment and machine parts or in closed systems (e.g., hydraulic systems) in locations in which there is no possibility of the lubricant or lubricated part contacting edible products.

#### LPS® PRODUCTS:

- **KB 88** The Ultimate Penetrant
- **LST** Penetrant
- **THERMAPLEX® BIO GREEN™** Bearing Grease
- **LPS 1®** Greaseless Lubricant
- **MAGNUM** Premium Lubricant with PTFE
- **THERMAPLEX® CS MOLY** Bearing Grease
- **LPS 2®** Heavy-Duty Lubricant
- **LPS 3®** Premier Rust Inhibitor
- **TKX®** All-Purpose Lubricant



### CLEANER AND DEGREASER FOR USE IN NON-PROCESSING AREAS

Cleaning and/or degreasing solvents for use in non-processing areas. Following the use of these compounds, equipment and utensils must be thoroughly washed, and rinsed with potable water, before being returned to a processing area.

#### LPS® PRODUCTS:

- **HDX** Heavy-Duty Degreaser



### SOLVENTS FOR CLEANING ELECTRONIC INSTRUMENTS

These compounds are chemically acceptable for cleaning electronic instruments and devices which will not tolerate aqueous cleaning solutions. Before using these compounds, food products, and packaging materials must be removed from the area or carefully protected. These compounds must be used in a manner so that all odors associated with the compound are dissipated before food products or packaging materials are in the area.

#### LPS® PRODUCTS:

- **CFC FREE** Electro Contact Cleaner
- **MICRO-X NU** Fast Evaporating Contact Cleaner
- **PSC** Plastic Safe Cleaner
- **CFC FREE NU** Contact Cleaner
- **NOFLASH®** Electro Contact Cleaner
- **REVO 66** Contact Cleaner
- **MICRO-X** Fast Evaporating Contact Cleaner
- **NOFLASH® NU** Electro Contact Cleaner



## METAL DETECTABLE AEROSOL PLASTIC COMPONENTS (PATENT PENDING)

LPS® Laboratories has revolutionized food safety for manufacturers with the release of 6 NSF® H1 food grade lubricants. All packaging components for these lubricants are either metal or metal detectable plastic. Use the patent-pending DETEX™ products to minimize your risk of recalls due to plastic contamination.



# LPS® SELECTION GUIDE FOR FOOD PROCESSING PLANTS

			NSF® CATEGORY CODE							
			DETEX™	H1	A1	C1	H2	K1	K2	CFIA
LUBRICANTS/PENETRANTS										
FOOD GRADE ANTI-SEIZE	Bulk		●							☞
FOOD GRADE CHAIN LUBRICANT	Aerosol	D	●							☞
FOOD GRADE MACHINE OIL	Aerosol	D	●							☞
FOOD GRADE SILICONE LUBRICANT	Aerosol	D	●							☞
HEAVY-DUTY SILICONE LUBRICANT	Aerosol & Bulk	D	●							☞
KB 88 THE ULTIMATE PENETRANT	Aerosol & Bulk						▼			
LPS 1® GREASELESS LUBRICANT	Aerosol & Bulk						▼			☞
LPS 2® HEAVY-DUTY LUBRICANT	Aerosol & Bulk						▼			☞
LST PENETRANT	Aerosol & Bulk						▼			
MAGNUM PREMIUM LUBRICANT WITH PTFE	Aerosol & Bulk						▼			
TKX® ALL PURPOSE LUBRICANT	Aerosol & Bulk						▼			
CLEANERS & DEGREASERS										
A-151 SOLVENT DEGREASER	Aerosol & Bulk					▼				
BFX ALL PURPOSE DEGREASER	Bulk					▼				
EM-CITRO EMULSION DEGREASER	Aerosol & Bulk					▼				
EVR CLEAN AIR SOLVENT DEGREASER	Aerosol					▼				
G-49™ ORANGE DEGREASER LOW VOCs	Aerosol					▼				
HDX HEAVY-DUTY DEGREASER	Aerosol & Bulk							▼		
INSTANT SUPER DEGREASER	Aerosol & Bulk					▼				☞
PRECISION CLEAN MULTI-PURPOSE CLEANER/DEGREASER	Bulk					▼				
PRESOLVE® ORANGE DEGREASER	Aerosol & Bulk					▼				
T-91™ NON-SOLVENT DEGREASER	Bulk			▼						☞
ZEROTRI® HEAVY-DUTY DEGREASER	Aerosol & Bulk					▼				☞
ELECTRICAL CLEANERS										
CFC FREE ELECTRO CONTACT CLEANER	Aerosol & Bulk								▼	
CFC FREE NU CONTACT CLEANER	Aerosol								▼	
MICRO-X FAST EVAPORATING CONTACT CLEANER	Aerosol & Bulk								▼	
MICRO-X NU FAST EVAPORATING CONTACT CLEANER	Aerosol								▼	
NOFLASH® ELECTRO CONTACT CLEANER	Aerosol								▼	
PSC PLASTIC SAFE CLEANER	Aerosol								▼	
REVO 66 CONTACT CLEANER	Aerosol								▼	☞
CORROSION INHIBITORS										
COLD GALVANIZE CORROSION INHIBITOR	Aerosol & Bulk									☞
LPS 3® PREMIER RUST INHIBITOR	Aerosol & Bulk						▼			☞
GREASES										
CLEAR PENETRATING GREASE	Aerosol	D	●				▼			
THERMAPLEX® BIO GREEN™ BEARING GREASE	Bulk						▼			
THERMAPLEX® CS MOLY BEARING GREASE	Bulk						▼			
THERMAPLEX® FOODLUBE BEARING GREASE	Bulk		●							☞
WHITE LITHIUM GREASE WITH PTFE	Aerosol									☞
SPECIALTY MRO PRODUCTS										
ANTI-SPATTER	Aerosol									☞
BELT DRESSING	Aerosol	D	●							☞

**D** DETEX™ Metal Detectable Plastic Aerosol Components

● For use in food processing areas.

▼ **DO NOT USE** while food is being processed in manufacturing areas.










☞ Acceptable for use in Canadian food processing establishments.

For more information please visit us on line at [www.lpslabs.com](http://www.lpslabs.com) or call 800-241-8334.



# LUBRICANTS/PENETRANTS

## AVAILABLE SIZES

									
		AEROSOL	TRIGGER 20 OZ.	1 GAL. METAL	5 GAL. PLASTIC	5 GAL. METAL	55 GAL. METAL	JAR 1/2 LB	JAR 1 LB
WET FILM LUBRICANTS	CHAINMATE®	●							
	LPS 2®	●	●	●		●	●		
	MAGNUM	●				●			
	TKX®	●	●	●		●	●		
DRY FILM LUBRICANTS	DRY FILM PTFE LUBRICANT	●							
	DRY FILM SILICONE LUBRICANT	●							
	FORCE 842®	●							
	LPS 1®	●	●	●		●	●		
PENETRANTS	KB 88	●	●	●		●	●		
	LST	●		●		●	●		
 <b>FOOD GRADE</b>	FG* CHAIN LUBRICANT	●							
	FG* MACHINE OIL	●							
	FG* SILICONE LUBRICANT	●							
	HD** SILICONE LUBRICANT	●			●				
ANTI-SEIZES	ALL-PURPOSE							●	●
	COPPER	●						●	●
	FOOD GRADE							●	●
	NICKEL							●	●

\*FOOD GRADE \*\*HEAVY-DUTY

## PTFE LUBRICANTS



### DRY FILM LUBRICANT

## LPS 1® GREASELESS LUBRICANT



- Provides a dry, thin, lubricating film
- Resists oil, dust, and dirt build-up
- Fast acting penetration
- Loosens rusted or frozen parts
- Provides a short term, light, corrosion resistant barrier
- Ideal for delicate mechanisms
- NSF® Certified: H2 Registration #059847 (Aerosol); #129040 (Bulk)
- Acceptable for use in Canadian Food Processing Establishments
- Safe on paint and most plastics

Net Contents	Part No.
11 wt. oz./312 g/379 mL	00116
20 fl. oz. (591 mL)	00122
1 gal. (3.78 L)	01128
5 gal. (18.93 L)	00105
55 gal. (208 L)	00155
11 wt. oz./312g/379mL	C30116

#### MEETS OR EXCEEDS THESE SPECS:

Lockheed Martin EPSN G34.031  
MIL-C-23411A  
Pratt & Whitney Canada CPMC 79255 Rev. C  
\*See page 46 for more specs

NSN 7930-01-380-9028 (11 wt. oz.)  
NSN 9150-01-039-4745 (11 wt. oz.)  
NSN 9150-01-142-9773 (5 gal.)



Scan QR Code to view  
demo video of LPS 1®  
or go to [www.lpslabs.com/LPS\\_ProductVideos.html](http://www.lpslabs.com/LPS_ProductVideos.html)



### WET FILM LUBRICANT

## LPS 2® HEAVY-DUTY LUBRICANT



- Strong, multi-purpose lubricant and penetrant with added corrosion protection
- Provides a non-drying, light, oily film for use on indoor/outdoor equipment
- Reduces wear caused by friction and corrosion
- Loosens rusted or frozen parts
- Provides up to one year of protection
- NSF® Certified: H2 Registration #129026 (Aerosol); #059848 (Bulk)
- Acceptable for use in Canadian Food Processing Establishments

Net Contents	Part No.
11 wt. oz./312 g/369 mL	00216
20 fl. oz. (591 mL)	00222
1 gal. (3.78 L)	02128
5 gal. (18.93 L)	00205
55 gal. (208 L)	00255
11 wt. oz./312 g/369 mL	C30216

#### MEETS OR EXCEEDS THESE SPECS:

Lockheed Martin CPC 2c & 3b lubricating  
Lockheed Martin EPSN G39.04  
Pratt & Whitney Canada CPMC 79256 Rev. C  
MIL-PRF-16173E Grade 3 Class 1  
MIL-C-23411A

\*See page 46 for more specs

NSN 8030-00-838-7789 (11 wt. oz.)



### DRY FILM PTFE

## DRY FILM PTFE LUBRICANT



- Dry film will not attract dust or dirt
- Provides excellent lubrication
- Excellent for releasing molded parts
- Excellent for high temperature applications up to 500°F (260°C)
- Colorless, thin film
- Petroleum base

Net Contents	Part No.
11 wt. oz./312 g/370 mL	02616

#### MEETS OR EXCEEDS THIS SPEC:

Learjet M35A/M36B, M55 and Aeronca  
Maintenance Manuals (M3735-01-98-0042)



### WET FILM PTFE

## MAGNUM PREMIUM LUBRICANT WITH PTFE



- High performance lubricant with PTFE additives
- Ideal for both regular and extreme conditions
- Penetrates and protects metal against rust and corrosion
- Flash point of 175°F (79°C)
- Safe to use on most surfaces
- NSF® Certified: H2 Registration #128980 (Aerosol); #128981 (Bulk)

Net Contents	Part No.
11 wt. oz./312 g/358 mL	00616
5 gal. (18.93 L)	00605



# LUBRICANTS

## MOLY LUBRICANTS



### DRY FILM MOLY

## FORCE 842® DRY MOLY LUBRICANT



- Fortified with molybdenum disulfide
- Provides a quick drying, thin film
- For assembly and break-in lubrication
- Works under high temperatures – 842°F (450°C) and pressures – 100,000 psi (6890 Bars)
- Resists dust and dirt
- Prevents seizure of parts
- High adhesion
- Water and chemical resistant

**Net Contents** 11 wt. oz./312 g/468 mL **Part No.** 02516

### MEETS OR EXCEEDS THIS SPEC:

MIL-L-46147A Type II

NSN 4730-01-529-3776 (11 wt. oz.)



### WET FILM MOLY

## CHAINMATE® CHAIN & WIRE ROPE LUBRICANT



- Fortified with molybdenum disulfide
- Increases the life of chains and wire ropes
- Effective under extreme temperature and pressure ranges
- Deep penetration to the core of wire ropes
- Reduces wear caused by friction and corrosion
- Lubricant and corrosion protectant
- High adhesion
- Use with guards in place to eliminate costly down time

**Net Contents** 11 wt. oz./312 g/428 mL **Part No.** 02416

### MEETS OR EXCEEDS THIS SPEC:

Pratt & Whitney Canada MMC 21539



## FOOD GRADE MACHINE OIL



- NSF® Certified: H1 Registration # 129000 (Aerosol)
- Acceptable for use in Canadian Food Processing Establishments
- Penetrates to loosen frozen nuts and bolts
- Provides excellent lubricity
- Colorless
- Eliminates sticking, binding, and squeaking
- Non-staining lubricant
- Safe on most surfaces

**Net Contents** 11 wt. oz./312 g/376 mL **Part No.** 01316

### MEETS OR EXCEEDS THIS SPEC:

FDA Regulation 21 CFR 178.3570 for incidental food contact

Product contains:  
Metal Detectable Plastic  
Aerosol Components



## FOOD GRADE CHAIN LUBRICANT



- NSF® Certified: H1 Registration # 132899 (Aerosol)
- Acceptable for use in Canadian Food Processing Establishments
- Excellent for applications involving incidental food contact on food processing equipment
- Foaming action provides extra penetration and lubrication
- Oily, wet film extends chain life

**Net Contents** 12 wt. oz./340 g/430 mL **Part No.** 06016

### MEETS OR EXCEEDS THIS SPEC:

FDA Regulation 21 CFR 178.3570 for incidental food contact

Product contains:  
Metal Detectable Plastic  
Aerosol Components



## SILICONE LUBRICANTS



### TKX® ALL-PURPOSE LUBRICANT



- Excellent all purpose lubricant
- Loosens rusted or frozen parts
- Protects against corrosion
- High flash point of 175°F (79°C)
- NSF® Certified: H2 Registration # 059842 (Aerosol); # 059843 (Bulk)

Net Contents	Part No.
11 wt. oz./312 g/368 mL	02016
20 fl. oz. (591 mL)	02022
1 gal. (3.78 L)	02028
5 gal. (18.93 L)	02005
55 gal. (208 L)	02055



### WET FILM SILICONE

### HEAVY-DUTY SILICONE LUBRICANT

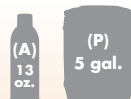


- NSF® Certified: H1 Registration # 059820 (Aerosol); # 059821 (Bulk)
- Acceptable for use in Canadian Food Processing Establishments
- Meets FDA regulation for incidental food contact
- Water-based, silicone-rich formula
- Colorless
- Ideal for rubber and plastic surfaces
- Eliminates sticking, binding, and squeaking
- Non-staining
- Safe on most surfaces

Net Contents	Part No.
13 wt. oz./369 g/439 mL	01516
5 gal. (18.93 L)	01505

**MEETS OR EXCEEDS THIS SPEC:**  
FDA Regulation 21 CFR 178.3570 for incidental food contact

Product contains:  
Metal Detectable Plastic  
Aerosol Components



### DRY FILM SILICONE

### DRY FILM SILICONE LUBRICANT



- Ultra dry film reduces sticking of sliding parts
- Provides excellent lubrication
- Excellent for releasing molded parts
- Excellent for high temperature applications up to 500°F (260°C)
- Colorless, thin film

Net Contents	Part No.
11 wt. oz./312 g/373 mL	01616



### DRY FILM SILICONE

### FOOD GRADE SILICONE LUBRICANT



- NSF® Certified: H1 Registration # 113815 (Aerosol)
- Acceptable for use in Canadian Food Processing Establishments
- Meets FDA regulation for incidental food contact
- Dry film will not attract dust or dirt
- Provides excellent lubrication
- Ideal for releasing molded parts
- Excellent for high temperature applications up to 500°F (260°C)

Net Contents	Part No.
10 wt. oz./284 g/454 mL	01716

**MEETS OR EXCEEDS THIS SPEC:**  
FDA Regulation 21 CFR 178.3570 for incidental food contact

Product contains:  
Metal Detectable Plastic  
Aerosol Components



# ANTI-SEIZES

**NEW**



## FOOD GRADE ANTI-SEIZE



- NSF® Certified: H1 Registration #143035
- Acceptable for use in Canadian Food Processing Establishments
- Protects against seizure, heat-freeze, galling, rust, and corrosion
- Great for food processing and food handling applications
- Service rating: -65°F (-54°C) to 1800°F (982°C)
- Non-staining
- Lowers friction; reduces wrench torque
- Contains no metals
- Not affected by contraction, expansion, or vibration
- Water resistant
- May be used with potable water

Net Contents	Part No.
1/2 lb. (227 g)	06508
1 lb. (454 g)	06510

### MEETS OR EXCEEDS THIS SPEC:

FDA Regulation 21 CFR 178.3570 for incidental food contact



## COPPER ANTI-SEIZE



- Prevents seizure up to 1800°F (982°C)
- Lead free
- Protects against seizure, heat-freeze, galling, rust and corrosion
- Brushes easily
- Highly adhesive on both wet and dry surfaces
- Will not run, drip, or settle out
- Ideal for use on stainless steel and for joining dissimilar metals
- Copper color

Net Contents	Part No.
12 wt. oz./340 g/406 mL	02916
1/2 lb. (227 g)	02908
1 lb. (454 g)	02910

### MEETS OR EXCEEDS THIS SPEC:

MIL-PRF-907E



## ALL-PURPOSE ANTI-SEIZE



- Prevents seizure up to 1800°F (982°C)
- Moly fortified
- Lead free
- Protects against seizure, heat-freeze, galling, rust, and corrosion
- Lowers friction; reduces wrench torque
- Reduces maintenance costs
- Not affected by contraction, expansion, or vibration
- Will not run, drip, or settle out
- Charcoal grey color

Net Contents	Part No.
1/2 lb. (227 g)	04108
1 lb. (454 g)	04110

### MEETS OR EXCEEDS THIS SPEC:

MIL-PRF-907E



## NICKEL ANTI-SEIZE



- Prevents seizure up to 2600°F (1427°C)
- Does not contain lead, copper, or graphite
- Protects against seizure, rust, and corrosion
- Chemically inert
- Can be used with ammonia, acetylene, and vinyl monomers which are unstable in the presence of copper
- Strong resistance to water wash off
- Brushable to -18°F (-27°C)
- Will not run, drip, or settle out
- Ideal for use on stainless steel and for joining dissimilar metals
- Silver color
- Acid resistant

Net Contents	Part No.
1/2 lb. (227 g)	03908
1 lb. (454 g)	03910

### MEETS OR EXCEEDS THIS SPEC:

MIL-PRF-907E



SAFE ON MOST PAINTED SURFACES



LST has extra low surface tension that does not bead and instead spreads with a more consistent coating and penetrates even the tiniest cracks and crevices in a surface.

## LST PENETRANT



- Specially formulated with low surface tension for fast penetrating action
- Attacks rust and corrosion to free frozen parts
- Powerful foaming action provides complete surface coverage
- Flash point of 175°F (79°C)
- NSF® Certified: H2 Registration # 059851 (Aerosol); # 059823 (Bulk)

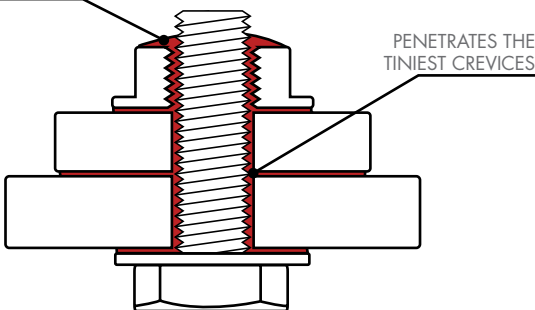
### Net Contents

	Part No.
11 wt. oz./312 g/382 mL	01916
1 gal. (3.78 L)	01928
5 gal. (18.93 L)	01905
55 gal. (208 L)	01955

### MEETS OR EXCEEDS THESE SPECS:

ASTM F-945  
Pratt & Whitney PMC 9545 SPOP 427  
A-A-50493 Class B Type I & II  
VV-P-216C Type I

DOES NOT BEAD  
ON THE SURFACE



**LST HAS A LOWER SURFACE TENSION THAN  
MOST COMPETITIVE PRODUCTS.**



Kauri-Butanol value is an indication of the solvent power of diluents and thinners as measured by dissolving Kauri resin. High numbers or values indicate strong solvents, low values indicate weak or mild solvents.

KB 88 has very low surface tension that allows penetration of even the tiniest cracks and crevices in a surface. In addition, KB 88 is VOC compliant while many competitive products are not.

## KB 88 THE ULTIMATE PENETRANT



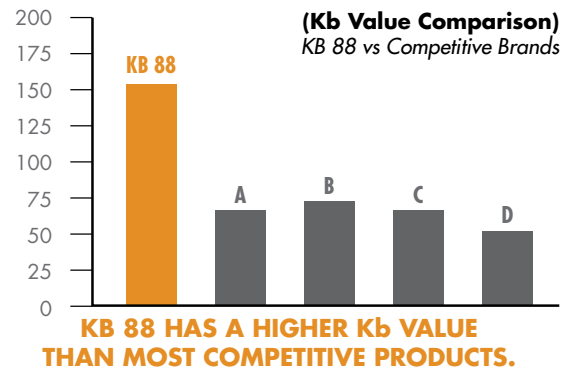
- The world's best penetrant
- Formulated to attack and quickly release rusted and corroded nuts, bolts, hinges, and other frozen components
- High Kb solvency value of 151 and low surface tension
- Penetrates faster and deeper than most other similar products in the market place
- Aggressive formula
- NSF® Certified: H2 Registration # 138554 (Aerosol); # 138553 (Bulk)

### Net Contents

	Part No.
13 wt. oz./369 g/417 mL	02316
20 fl. oz. (591 mL)	02322
1 gal. (3.78 L)	02301
5 gal. (18.93 L)	02305
55 gal. (208 L)	02355

### MEETS OR EXCEEDS THIS SPEC:

A-A-50493 Class B Types I and II



Scan QR Code to view demo video of KB 88 or go to  
[www.lpslabs.com/LPS\\_ProductVideos.html](http://www.lpslabs.com/LPS_ProductVideos.html).



100

## NFPA\* FLAMMABILITY RATING













		TEMP RANGE			
		<NON-FLAM		EXTR-FLAM>	
		1	2	3	4
WET FILM LUBRICANTS	CHAINMATE®				
	LPS 2®				
	MAGNUM				
	TKX®				
DRY FILM LUBRICANTS	DRY FILM PTFE				
	DRY FILM SILICONE				
	FORCE 842®				
	LPS 1®				
PENETRANTS	KB 88				
	LST				
<div> <div>H1</div> <div>FOOD GRADE</div> </div>	FOOD GRADE CHAIN LUBRICANT				
	FOOD GRADE MACHINE OIL				
	FOOD GRADE SILICONE				
	HEAVY-DUTY SILICONE				

\*NATIONAL FIRE PROTECTION ASSOCIATION

## CORROSION PROTECTION LONGEVITY

		6			
					12
					12
			9		
1					
1					
					12
	3				
1					
1					
	4				
	3				
1					
1					
MONTHS					
2	4	6	8	10	12

		NSF® CERTIFIED	TEMPERATURE RANGE										TYPE OF ANTI-SEIZE			
													ALUMINUM COMPLEX	NICKEL	COPPER	MOLY & GRAPHITE
ANTI-SEIZES	ALL-PURPOSE				-65°F (-54°C) to 1800°F (982°C)											
	COPPER				-65°F (-54°C) to 1800°F (982°C)											
	FOOD GRADE	H1			-65°F (-54°C) to 1800°F (982°C)											
	NICKEL				-65°F (-54°C) to 2600°F (1427°C)											
			-100°F	0°F	250°F	500°F	750°F	1000°F	1250°F	1500°F	1750°F	2000°F	2250°F	2500°F	2750°F	3000°F

		COMPLIANT						TYPE OF LUBRICANT			
		OTC	CARB	NSF® CERTIFIED		NON FLAMMABLE	DI-ELECTRIC STRENGTH	MOLY-BASED	SILICONE- BASED	PTFE	PETROLEUM
WET FILM LUBRICANTS	CHAINMATE®						NE*	●			●
	LPS 2®	●	●		●		33 kV				●
	MAGNUM	●	●				15 kV			●	●
	TKX®	●	●				32 kV				●
DRY FILM LUBRICANTS	DRY FILM PTFE LUBRICANT						NE*			●	
	DRY FILM SILICONE LUBRICANT	●	●			●	NE*		●		
	FORCE 842®						NE*	●			
	LPS 1®	●	●		●		32 kV				●
PENETRANTS	KB 88	●	●				NE*				●
	LST	●	●				33 kV				●
 FOOD GRADE	FOOD GRADE CHAIN LUBRICANT				●		NE*				●
	FOOD GRADE MACHINE OIL				●		NE*				●
	FOOD GRADE SILICONE LUBRICANT				●		NE*		●		
	HEAVY-DUTY SILICONE LUBRICANT	●	●		●		NE*		●		












\*NE=Not Established



# CLEANERS & DEGREASERS



## AVAILABLE SIZES

												
		WIPES	AEROSOL	20 OZ. TRIGGER	28 OZ. TRIGGER	32 OZ. BOTTLE	1 GAL.		5 GAL.		55 GAL.	
							PLASTIC	METAL	PLASTIC	METAL	PLASTIC	METAL
A-151			•							•		•
BFX	CONCENTRATE						•		•		•	
	READY-TO-USE			•								
EFX®			•					•		•		•
EM-CITRO	CONCENTRATE									•		•
	READY-TO-USE		•									
EVR			•					•		•		•
F-104°			•							•		•
G-49™			•									
HDX			•							•		•
INSTANT SUPER DEGREASER			•							•		•
OCX™			•							•		•
PF®-141 IG												•
PF®-HP								•		•		•
PF® SOLVENT		•	•			•		•		•		•
PRECISION CLEAN	CONCENTRATE						•		•		•	
	READY-TO-USE		•		•						•	
PRESOLVE®			•	•				•		•		•
SA-X™	CONCENTRATE						•		•		•	
	READY-TO-USE				•							
T-91™	CONCENTRATE						•		•		•	
	READY-TO-USE				•							
TRIFREE			•									
U-10			•									
ZEROTRI®			•					•		•		•

# CLEANERS & DEGREASERS

## WATER-BASED

**NEW**



**REVOLUTIONARY  
WATER-BASED  
SOLVENT  
REPLACEMENT  
PROPRIETARY  
FORMULA**

**T-91™**

NON-SOLVENT DEGREASER



- Contains no solvents
- Premium performance cleaning ability
- pH = 7.3 - 7.7
- Zero VOCs: VOC's per CARB/OTC/LADCO: 0 g/L, VOC content per SCAQMD: 0 g/L
- "Green": Recognized by U.S. EPA's (Environmental Protection Agency) "Design for the Environment" (DfE) Requirements
- Listed in the USDA BioPreferred™ Catalog
- Efficient: requires less product than traditional solvents to get the job done
- Ideal for traditional solvent cleaning, plastic basin style part washers and dip tanks
- NSF® Certified: A1 Registration # 141975 (Bulk)
- Moderate foam for effective mechanical cleaning
- Acceptable for use in Canadian Food Processing Establishments

### Net Contents

28 fl. oz. (828 mL) trigger  
1 gal. (3.78 L)  
5 gal. (18.93 L)  
55 gal. (208 L)

### Part No.

06328  
06301  
06305  
06355

### APPLICATION DILUTION CHART

Use T-91™ undiluted (straight) as a direct solvent replacement for all heavy duty degreasing applications.

Dilution Ratio Product: (as a neutral pH cleaner) Water	Applications: (Suggested dilution ranges for cleaning surfaces not damaged by water alone)
1:10 – 1:75	Finished Floors: Light to Heavy Duty Cleaning/Degreasing
Undiluted - 1 : 10	Metals: Heavy Duty Cleaning/Degreasing
1:20 – 1:80	Plastics, rubbers & painted surfaces
1:50 – 1:100	Glass
1:10 – 1:80	Pressure Washing: Light to Heavy-Duty Cleaning/Degreasing
1:10 – 1:25	Soak Tanks [Do Not Exceed 140°F (60°C)]



**PRECISION CLEAN**

MULTI-PURPOSE  
CLEANER/DEGREASER



- Super industrial strength removes tough stains and soils
- Water-based
- pH concentrate = 13, pH ready-to-use = 12.5
- Does not contain butyl, chlorinated or petroleum solvents, bleach, ammonia, or abrasives
- Alkaline formula inhibits flash rusting
- Rinses clean
- Safe on all surfaces except magnesium
- NSF® Certified: C1 Registration # 059854 (Bulk)
- Three formulations available: Aerosol, Concentrate and Ready-to-use

### Net Contents

Concentrate  
1 gal. (3.78 L) 02701  
5 gal. (18.93 L) 02705  
55 gal. (208 L) 02755  
Ready-to-Use  
18 wt. oz./510 g/525 mL 02720  
28 fl. oz. (828 mL) trigger 02728  
55 gal. (208 L) 02765

### Part No.

### MEETS OR EXCEEDS THESE SPECS:

AMS 1526A (Concentrate ≥ 1:4 dilution)  
AMS 1550B (Concentrate ≥ 1:4 dilution)  
ASTM F-519, Type 1C  
Boeing D6-17487 Rev. H (Concentrate ≥ 1:9 dilution)  
\*See page 46 for more specs



**EVR**

CLEAN AIR  
SOLVENT DEGREASER



- High solvent strength
- Instant cleaning action
- Excellent alternative to Methyl Ethyl Ketone (MEK)
- NSF® Certified: C1 Registration # 141139 (Aerosol)
- Ideal for cleaning metals
- No ozone depleting compounds

### Net Contents

14 wt. oz./397 g/492 mL 05220  
1 gal. (3.78 L) 05201  
5 gal. (18.93 L) 05205  
55 gal. (208 L) 05255

### Part No.

### MEETS OR EXCEEDS THESE SPECS:

Airbus ABR 9-0140 Issue 5A Type I  
Boeing D6-17487 Rev. P



# CLEANERS & DEGREASERS

## — BRAKE CLEANERS —



### ZEROTRI® HEAVY-DUTY DEGREASER



- Instant degreasing action
- Safe to use on most surfaces
- Ideal for degreasing metals
- NSF® Certified: C1 Registration # 059845 (Aerosol); # 059846 (Bulk)
- Acceptable for use in Canadian Food Processing Establishments

Net Contents	Part No.
15 wt. oz./425 g/563 mL	03520
1 gal. (3.78 L)	03528
5 gal. (18.93 L)	03505
55 gal. (208 L)	03555

#### MEETS OR EXCEEDS THESE SPECS:

Boeing BAC 5750 Rev. J  
Pratt & Whitney Canada MMC 21530

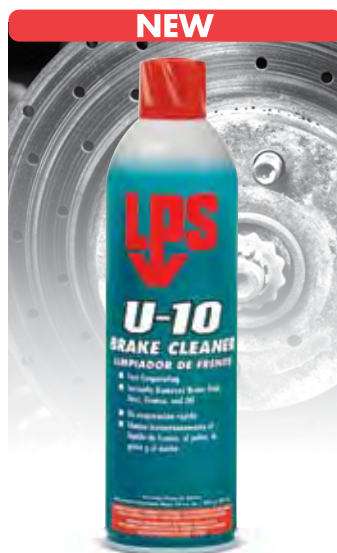


### TRIFREE BRAKE CLEANER



- Heavy-duty performance
- Instant degreasing action
- Improves brake performance
- Helps stop disc brake squeal
- Powerful jet spray

Net Contents	Part No.
15 wt. oz./425 g/544 mL	03620



### U-10 BRAKE CLEANER



- Replaces harmful chlorinated and smog producing VOC solvents
- Instantly removes brake fluid, dust, grease, and oil
- Improves brake performance
- Helps stop disc brake squeal
- Powerful jet spray and high solvency
- Can be applied without disassembling the brake unit
- No ozone depleting chemicals
- No rinsing

Net Contents	Part No.
14 wt. oz./397 g/501 mL	06220



### F-104® SOLVENT DEGREASER



- Heavy-duty degreaser with a 104°F (40°C) flash point
- Controlled evaporation
- Safe to use on most surfaces
- No rinsing
- Minimal residue

Net Contents	Part No.
15 wt. oz./425 g/532 mL	04920
5 gal. (18.93 L)	04905
55 gal. (208 L)	04955

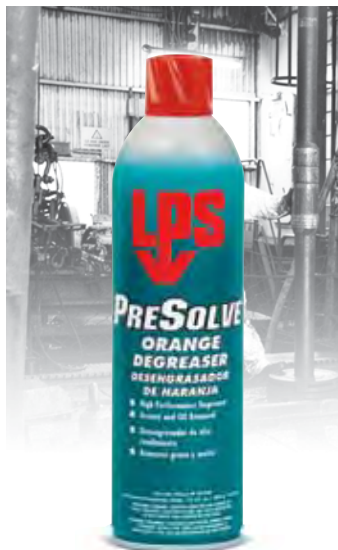
#### MEETS OR EXCEEDS THESE SPECS:

Airbus ABR 9-0140 Type I  
Boeing D6-17487 Rev. I  
Learjet LES 1239J  
Complies with the Aerospace NESHAP for wipe solvents



# CLEANERS & DEGREASERS

## ORANGE DEGREASERS



### PRESOLVE® ORANGE DEGREASER



- High performance industrial cleaner which cleans on contact
- Ideal for removing grease, tars, and oils
- Fast acting, deep penetration
- Flash point above 100°F (38°C)
- Low residue
- NSF® Certified: C1 Registration # 129025 (Aerosol); # 059830 (Bulk)
- Safe on all metals and most plastics

Net Contents	Part No.
15 wt. oz./425 g/523 mL	01420
20 fl. oz. (591 mL)	01422
1 gal. (3.78 L)	01428
5 gal. (18.93 L)	01405
55 gal. (208 L)	01455

#### MEETS OR EXCEEDS THESE SPECS:

Airbus SIL 20-006 Rev. 2  
AMS 1525B  
Lockheed Martin DSDN H01.3086  
McDonnell Douglas CSD #1  
Pratt & Whitney Canada MMC 21529

NSN 6850-01-514-7752 (15 wt. oz.)



### G-49™ ORANGE DEGREASER LOW VOCS



- Instant cleaning action
- Excellent for removing grease, grime, oil, and adhesives
- High solvent strength
- Moderate evaporation
- Excellent alternative to Methyl Ethyl Ketone (MEK)
- Ideal for cleaning equipment
- NSF® Certified: C1 Registration # 142147 (Aerosol)

Net Contents	Part No.
15 wt. oz./425 g/528 mL	06420



### EM-CITRO EMULSION DEGREASER

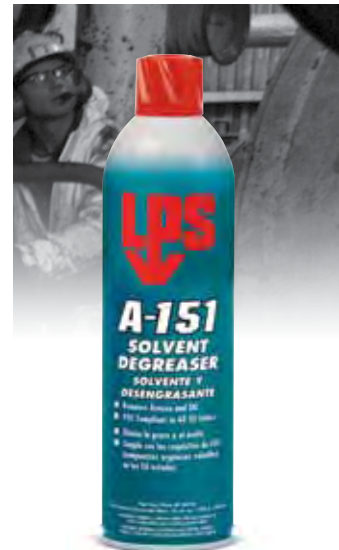
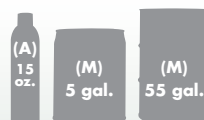


- Heavy-duty, citrus-based, degreaser that quickly removes oil, grease, tar, and grime from metal parts and equipment
- High delivery spray enhances and accelerates soil removal
- Neutral pH with no caustics, acids, chlorinated solvents, alcohols, or ozone depleting solvents
- Safe on most surfaces
- Low foaming viscous liquid enhances contact time by clinging to the soil and surface
- NSF® Certified: C1 Registration # 138552 (Aerosol); # 138551 (Bulk)

Net Contents	Part No.
Ready-to-use	
15 wt. oz./425 g/487 mL	02820
Concentrate	
5 gal. (18.93 L)	02805
55 gal. (208 L)	02855

#### MEETS OR EXCEEDS THIS SPEC:

Boeing D6-17487 Rev. P (Bulk)



### A-151 SOLVENT DEGREASER



- High flash point ≥ 158°F (70°C)
- VOC exempt per EPA and CARB guidelines
- Removes oil, grease and other contaminants
- Ideal for parts washers, dip tanks, and ultrasonic cleaners
- Controlled evaporation
- NSF® Certified: C1 Registration # 059811 (Aerosol); # 059812 (Bulk)

Net Contents	Part No.
15 wt. oz./425 g/498 mL	04320
5 gal. (18.93 L)	04305
55 gal. (208 L)	04355

#### MEETS OR EXCEEDS THESE SPECS:

Airbus ABR 9-0140 Issue 5A Type I  
ASTM F-945  
Boeing D6-17487 Rev. P  
Embraer EMB 120 Brasilia C.P.M.-120/1181  
Type B-1  
Learjet LES 1239J  
McDonnell Douglas CSD #1  
Conforms to SCAQMD Rule 1124



# CLEANERS & DEGREASERS



## INSTANT SUPER DEGREASER



- Excellent degreaser for removing greases and oils
- Safe on all metals
- NSF® Certified: C1 Registration # 129029 (Aerosol); # 129028 (Bulk)
- Acceptable for use in Canadian Food Processing Establishments

Net Contents	Part No.
20 wt. oz./567 g/441 mL	00720
5 gal. (18.93 L)	00705
55 gal. (208 L)	00755*

### MEETS OR EXCEEDS THESE SPECS:

Airbus ABR 9-0140 Issue 5A Type I  
Boeing D6-17487 Rev. P  
McDonnell Douglas CSD #1

\*Not available in Canada



## PF® SOLVENT



- A full strength, penetrating degreaser that removes grease and oil
- Specially formulated for power utility applications
- Compatible with power cables and components
- Flash point above 140°F (60°C)
- Does not contain chlorinated solvents such as trichloroethylene or perchloroethylene
- Can be used in parts washers, dip tanks, and ultrasonic cleaners
- Safe to use on most surfaces

Net Contents	Part No.
144 wipes per case	61400
144 wet/dry wipes	61410
14 wt. oz. / 397 g / 516 mL	61420
32 oz. bottle (946 mL)	61432
1 gal. (3.78 L)	61401
5 gal. (18.93 L)	61405
55 gal. (208 L)	61456

### MEETS OR EXCEEDS THESE SPECS:

AMS 1526B  
ARP 1755A  
ASTM F-945  
Boeing D6-17487 Rev. J  
Bombardier (Canadair) BAPS 180-009 Rev. C G & FP type cleaner  
McDonnell Douglas CSD #1  
MIL-PRF-680B Type IV



## PF®-HP HIGH PERFORMANCE SOLVENT



- Heavy duty, penetrating degreaser that removes grease and oil
- Specially formulated for power utility applications
- Compatible with power cable and power cable components
- Excellent for use in part washers and dip tanks
- Flash point above 140°F (60°C)
- No ozone depletion potential

Net Contents	Part No.
1 gal. (3.78 L)	62001
5 gal. (18.93 L)	62005
55 gal. (208 L)	62055*

### MEETS OR EXCEEDS THESE SPECS:

AMS 1526B  
ARP 1755A  
ASTM F-945  
Boeing D6-17487 Rev. J  
McDonnell Douglas CSD #1

NSN 6850-01-378-0044 (1 gal.)  
NSN 6850-01-377-9710 (5 gal.)  
NSN 6850-01-377-9360 (55 gal.)

\*Not available in Canada



## PF®-141 IG INDUSTRIAL GRADE SOLVENT



- Removes petroleum based oils such as stamping oils, cutting fluids, rust inhibitors, and cable pulling lubricants
- Flash point above 140°F (60°C)
- No ozone depletion potential
- Excellent for use in parts washers
- Will not attack most commercial resins, plastics, urethanes, and synthetic rubbers
- Non-corrosive to metals such as copper, aluminum, magnesium, and stainless steel

Net Contents	Part No.
55 gal. (208 L)	62855

### MEETS OR EXCEEDS THIS SPEC:

AMS 1526B  
ARP 1755B  
Boeing D6-17487 Rev. L  
McDonnell Douglas CSD #1  
MIL-PRF-680B Type II

NSN 6850-01-423-2713 (55 gal.)

### APPLICATIONS:

- Bearings
- Cables
- Chains
- Controls
- Gauges
- Gears
- Heavy Equipment
- High Voltage Cable Connections



# CLEANERS & DEGREASERS

## VALUE PERFORMANCE "X" PRODUCTS

**NEW**



**BUTYL-BASED  
SUPER AGGRESSIVE  
WATER-BASED  
HIGH ALKALINITY  
pH: 12.0 – 13.0**

**SA-X™**

X-TREME DEGREASER



- Removes greases, oil, tar, and dirt
- Economical: can be diluted with water
- Efficient: requires less product than traditional water-based cleaners to get the job done
- Rinses clean with no residue
- Safe on most surfaces except magnesium
- Trigger spray bottle is ready-to-use

### Net Contents

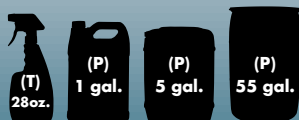
28 fl. oz. (828 mL) trigger  
1 gal. (3.78 L)  
5 gal. (18.93 L)  
55 gal. (208 L)

### Part No.

06828  
06801  
06805  
06855

### APPLICATION DILUTION CHART

Dilution Ratio Product: (as a neutral pH cleaner) Water	Applications: (Suggested dilution ranges for cleaning surfaces not damaged by water alone)
1 : 1-5	Carbon blocks, engines, exhaust hoods, forklifts, graffiti, marine, tanks, varnish
1 : 1-10	Dip tanks, compressors, processing equipment, hoists, lifts, printing presses, tools
1 : 4-10	Tumblers, drill presses, oily parts, pulleys and wires
1 : 50-130	Steam cleaners, engines, parts and equipment
1 : 40-100	Floors, tile, walls, painted/sealed wood
1 : 40-80	Pressure washers, cleaning parts, floors, trucks, etc. (Follow with a fresh water rinse)
1 : 100-130	Appliances, formica, general cleaning of glass, painted walls



**BUTYL-FREE  
WATER-BASED  
HIGH ALKALINITY  
pH: 11.0 – 11.5**

**BFX**

ALL-PURPOSE CLEANER



- Water-based
- Non-corrosive
- Industrial strength for hard to remove grease and oil
- Rinses clean
- Ideal for parts washers and pressure washers
- Safe on most surfaces except magnesium
- NSF® Certified: C1 Registration #130101 (Bulk)

### Net Contents

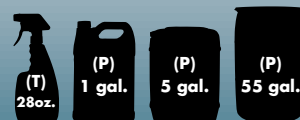
28 fl. oz. (828 mL) trigger  
1 gal. (3.78 L)  
5 gal. (18.93 L)  
55 gal. (208 L)

### Part No.

05528  
05501  
05505  
05555

### APPLICATION DILUTION CHART

BFX	Water		BFX	Water
1 to	4 parts	=	32 fl. oz	1 gallon
1 to	5 parts	=	26 fl. oz	1 gallon
1 to	10 parts	=	13 fl. oz	1 gallon
1 to	20 parts	=	6.5 fl. oz	1 gallon
1 to	40 parts	=	3 fl. oz	1 gallon
1 to	80 parts	=	1.5 fl. oz	1 gallon
1 to	100 parts	=	1.3 fl. oz	1 gallon
1 to	128 parts	=	1 fl. oz	1 gallon
1 to	150 parts	=	.85 fl. oz	1 gallon



# CLEANERS & DEGREASERS

## VALUE PERFORMANCE "X" PRODUCTS



### HDX HEAVY-DUTY DEGREASER



- Heavy-duty action removes oil, grease, wax, dirt, moisture, tar, and other contaminants
- NSF® Certified: K1 Registration # 059809 (Aerosol); #059810 (Bulk)

Net Contents	Part No.
19 wt. oz. / 539 g / 376 mL	01020
5 gal. (18.93 L)	01005
55 gal. (208 L)	01055



### EFX® SOLVENT/DEGREASER



- Fast-acting, heavy-duty solvent that degreases and cleans in a single operation
- Power blast spray instantly removes oil, grease, wax, dirt, tar, and other contaminants
- Ideal for cleaning metals and most plastics

Net Contents	Part No.
15 wt. oz. / 425 g / 588 mL	01820
1 gal. (3.78 L)	01801
5 gal. (18.93 L)	01805
55 gal. (208 L)	01855



### OCX™ CITRUS DEGREASER



- High performance industrial degreaser which cleans on contact
- Fast acting on grease, oil, and sludge
- Natural based
- Flash point above 100°F (38°C)
- Safe on all metals and most plastics

Net Contents	Part No.
15 wt. oz. / 425 g / 532 mL	05020
5 gal. (18.93 L)	05005
55 gal. (208 L)	05055

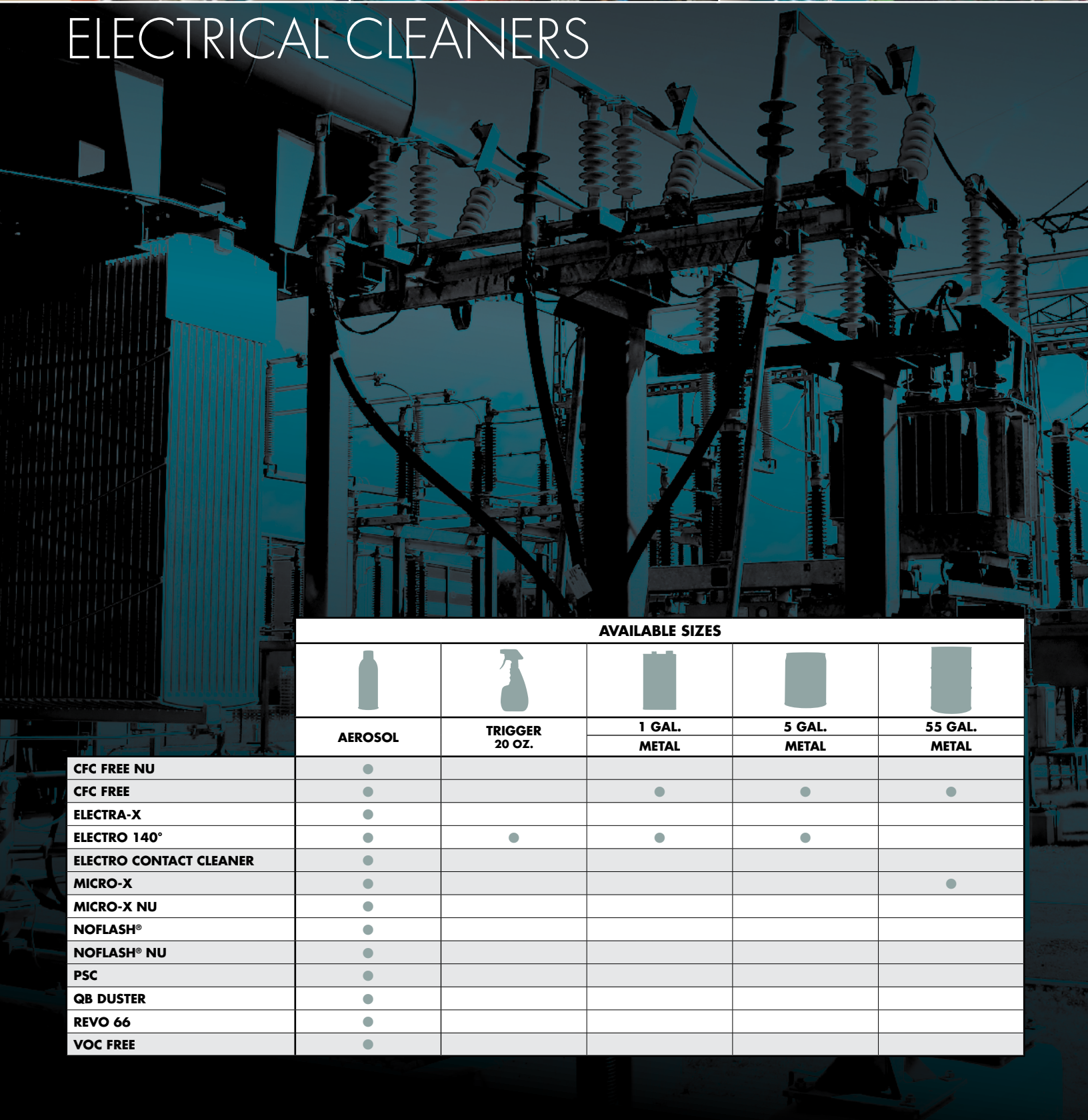













# ELECTRICAL CLEANERS



## AVAILABLE SIZES

					
	AEROSOL	TRIGGER 20 OZ.	1 GAL. METAL	5 GAL. METAL	55 GAL. METAL
CFC FREE NU	●				
CFC FREE	●		●	●	●
ELECTRA-X	●				
ELECTRO 140°	●	●	●	●	
ELECTRO CONTACT CLEANER	●				
MICRO-X	●				●
MICRO-X NU	●				
NOFLASH®	●				
NOFLASH® NU	●				
PSC	●				
QB DUSTER	●				
REVO 66	●				
VOC FREE	●				

# ELECTRICAL CLEANERS



AEROSOL

## CFC FREE ELECTRO CONTACT CLEANER



- Ideal for electronic and fine parts
- Cleans and degreases delicate precision mechanisms
- Penetrating action removes oil, grease, dirt, flux, and other contaminants
- NSF® Certified: K2 Registration # 059813 (Aerosol), #059814 (Bulk)

**Net Contents** 11 wt. oz./312 g/465 mL **Part No.** 03116

BULK

## CFC FREE PREMIUM SOLVENT

**Net Contents** **Part No.**  
1 gal. (3.78 L) 03101  
5 gal. (18.93 L) 03105  
55 gal. (208 L) 03155

### MEETS OR EXCEEDS THESE SPECS:

AMS 1525B  
ASTM F-519, Type 1C  
Lockheed Martin DSDN H01.2101  
MIL-PRF-29608

NSN 6850-01-407-3811 (11 wt. oz.)  
NSN 6850-01-167-4701 (1 gal.)  
NSN 6850-01-412-0044 (5 gal.)  
NSN 6850-01-412-0043 (55 gal.)



NEW

## CFC FREE NU CONTACT CLEANER



- VOC Compliant in all 50 States
- Ideal for electronic and fine parts
- Cleans and degreases delicate precision mechanisms
- Penetrating action removes dirt, flux, moisture, dust, oxides, and other contaminants
- NSF® Certified: K2 Registration # 142024 (Aerosol)

**Net Contents** **Part No.**  
11 wt. oz./312 g/416 mL 05416

**MEETS OR EXCEEDS THIS SPEC:**  
MIL-PRF-29608



AEROSOL

## ELECTRO 140° CONTACT CLEANER



- Flash point above 140°F (60°C)
- Superior wetting and penetrating action
- Controlled evaporation
- Safe to use on most surfaces
- Ideal for part washers, dip tanks, and ultrasonic cleaning tanks

**Net Contents** **Part No.**  
11 wt. oz./312 g/389 mL 00916

BULK

## E-140° PREMIUM SOLVENT

**Net Contents** **Part No.**  
20 fl. oz. (591 mL) 00922  
1 gal. (3.78 L) 09128  
5 gal. (18.93 L) 00905

### MEETS OR EXCEEDS THESE SPECS:

ASTM F-945  
Bombardier (Canadair) BAPS 180-009 Rev. C FE type cleaner  
Learjet LES 1239J  
Martin Marietta MMS M2-10028  
McDonnell Douglas CSD #1

NSN 6850-01-418-1704 (11 wt. oz.)  
NSN 6850-01-418-1708 (1 gal.)  
NSN 6850-01-418-1699 (5 gal.)



## QB PRECISION DUSTER



- Quick blast precision duster removes contaminants, dirt, dust, and other soils
- Excellent for use on electronics and delicate mechanisms
- Moisture free

**Net Contents** **Part No.**  
10 wt. oz./284 g/234 mL 05710



# ELECTRICAL CLEANERS

—AVAILABLE ONLY IN CANADA—



## NOFLASH® ELECTRO CONTACT CLEANER



- Unique alternative to HCFC cleaners
- Quick penetration
- Safe to use on most surfaces, but may be harmful to some plastics
- VOC compliant in California
- NSF® Certified: K2 Registration #131303 (Aerosol)

**Net Contents** 12 wt. oz./340 g/268 mL  
**Part No.** 04016\*

### MEETS OR EXCEEDS THESE SPECS:

Boeing D6-17487 Rev. P  
Delta Airlines  
Learjet LES 1239J  
McDonnell Douglas CSD #1

\*Not available in Canada  
(in Canada use # C04015)



## NOFLASH® NU PRECISION CONTACT CLEANER



- Unique alternative to HCFC cleaners
- No flash point
- Quick penetration
- No rinsing
- Safe to use on most surfaces, but may be harmful to some plastics
- NSF® Certified: K2 Registration #129001 (Aerosol)

**Net Contents** 12 wt. oz./340 g/268 mL  
**Part No.** C04015

### MEETS OR EXCEEDS THESE SPECS:

Boeing D6-17487 Rev. P  
McDonnell Douglas CSD #1

\*Available only in Canada  
(in U.S. use # 04016)



## REVO 66 CONTACT CLEANER



- Unique alternative to HCFC cleaners
- Does not contain brominated solvents
- Ideal for removing dirt, moisture, flux, or oxides from the internal components of electronic equipment
- Quick penetration
- No rinsing
- Safe to use on most surfaces
- NSF® Certified: K2 Registration #140245 (Aerosol)

**Net Contents** 12 wt. oz./340 g/279 mL  
**Part No.** 04416



## VOC FREE CONTACT CLEANER



- Excellent for cleaning electrical equipment and fine precision parts
- Does not contain VOCs per EPA guidelines
- Penetrates to remove light greases, oils, dirt, and organic soils
- Conforms to SCAQMD Rules 102 and 1171
- Safe on most surfaces, but may be harmful to some plastics

**Net Contents** 14 wt. oz./397 g/296 mL  
**Part No.** 03416\*

\*Not available in Canada



# ELECTRICAL CLEANERS

VALUE PERFORMANCE "X" PRODUCTS



## ELECTRO CONTACT CLEANER



- Quick penetration
- Does not contain HCFCs
- Ideal for electronic and fine parts
- Removes light greases, oils, dirt, and organic soils

**Net Contents** Part No.  
14 wt. oz./397g/301mL 00416

**MEETS OR EXCEEDS THIS SPEC:**

MIL-PRF-29608A Type C



## PSC PLASTIC SAFE CLEANER



- Formulated for contact cleaning
- Does not contain HCFCs
- NSF® Certified: K2 Registration #129002 (Aerosol)

**Net Contents** Part No.  
18 wt. oz./510g/412mL 04620

**MEETS OR EXCEEDS THIS SPEC:**

Cessna Approval #244689

NSN 7930-01-436-7995 (18 wt. oz.)



## MICRO-X NU FAST EVAPORATING CONTACT CLEANER



- Reduced VOCs (Volatile Organic Compounds)
- Quick penetration
- Ideal for electronic and fine parts
- Removes dirt, dust, flux, and other contaminants
- NSF® Certified: K2 Registration #142149 (Aerosol)

**Net Contents** Part No.  
11 wt. oz./312g/417mL 06616



## AEROSOL MICRO-X FAST EVAPORATING CONTACT CLEANER



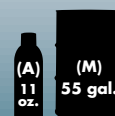
- Quick penetration
- Does not contain HCFCs
- No rinsing
- NSF® Certified: K2 Registration #059853 (Aerosol); #059852 (Bulk)

**Net Contents** Part No.  
11 wt. oz./312g/466mL 04516

**BULK**

## MICRO-X VALUE SOLVENT

**Net Contents** Part No.  
55 gal. (208 L) 04555



## ELECTRA-X CONTACT CLEANER



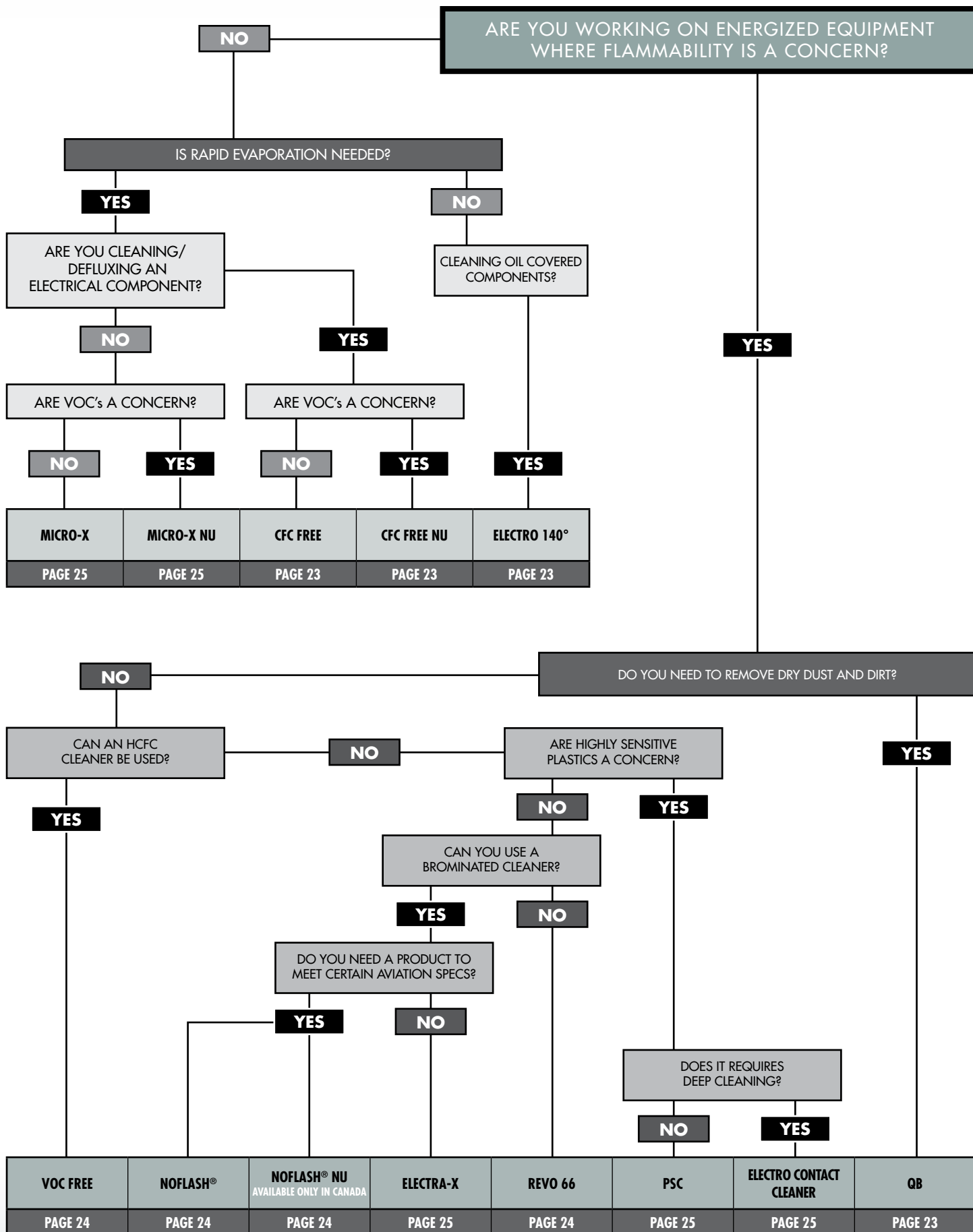
- Quick penetration
- Does not contain HCFCs
- Ideal for electronic and fine parts
- Removes light greases, oils, dirt, and organic soils

**Net Contents** Part No.  
12 wt. oz./340g/266mL 00816\*

\*Not available in Canada



# DECISION TREE: ELECTRICAL CLEANERS












# TECHNICAL PROPERTIES: ELECTRICAL CLEANERS

## DI-ELECTRIC STRENGTH

CFC FREE	NOT APPLICABLE									
CFC FREE NU	NOT APPLICABLE									
ELECTRA-X	9									
ELECTRO 140°	13.1									
ELECTRO CONTACT CLEANER	22									
MICRO-X	NOT APPLICABLE									
MICRO-X NU	NOT APPLICABLE									
NOFLASH®	9									
NOFLASH® NU	9									
PSC	8.5									
QB	NOT ESTABLISHED									
REVO 66	47.5									
VOC FREE	13									
kV (kilovolts)	5	10	15	20	25	30	35	40	45	50

## Kb VALUE






CFC FREE	31									
CFC FREE NU	26									
ELECTRA-X°	80									
ELECTRO 140°	52									
ELECTRO CONTACT CLEANER	NOT ESTABLISHED									
MICRO-X	29									
MICRO-X NU	24									
NOFLASH®	80									
NOFLASH® NU	80									
PSC	NOT ESTABLISHED									
QB	NOT ESTABLISHED									
REVO 66	60									
VOC FREE	NOT ESTABLISHED									
Kb Value	10	20	30	40	50	60	70	80	90	100

	COMPLIANT		NSF® CERTIFIED		PLASTIC SAFE	NON FLAMMABLE	NON CONDUCTIVE	FAST EVAPORATING	LEAVES NO RESIDUE
	OTC	CARB							
CFC FREE					●			●	●
CFC FREE NU	●	●			●			●	●
ELECTRA-X	●	●				●	●	●	●
ELECTRO 140°					●		●		●
ELECTRO CONTACT CLEANER	●	●			●	●	●	●	●
MICRO-X					●			●	●
MICRO-X NU	●	●			●			●	●
NOFLASH®	●	●				●	●	●	●
NOFLASH® NU	●	●				●	●	●	●
PSC	●				●	●	●	●	●
QB	●	●			●	●	●	●	●
REVO 66	●	●		●		●	●	●	●
VOC FREE	●	●				●	●	●	●



# GREASES



	AVAILABLE SIZES				
					
	AEROSOL	CARTRIDGE	35 LB PAIL (PLASTIC)	120 LB KEG (METAL)	400 LB DRUM (METAL)
THERMAPLEX® BIO GREEN™		●	●		
THERMAPLEX® CS MOLY		●	●		
THERMAPLEX® MULTI-PURPOSE		●	●	●	●
THERMAPLEX® FOODLUBE		●	●	●	●
THERMAPLEX® AQUA		●	●	●	●
THERMAPLEX® HI-TEMP		●	●	●	●
THERMAPLEX® HI-LOAD		●	●	●	●
CLEAR PENETRATING GREASE	●				
RED & RED	●				
WHITE LITHIUM	●				

**THICKENER TYPE:**  
ALUMINUM COMPLEX

**NEW**



**PREMIUM  
PERFORMANCE,  
BIODEGRADABLE  
GREASE**

## THERMAPLEX® BIO GREEN™ BEARING GREASE



- Qualified to the USDA BioPreferred<sup>SM</sup> program
- Environmentally responsible
- Prolongs bearing life
  - Outstanding extreme pressure (EP) performance
  - Superior rust and corrosion protection - Perfect score on the EMCOR rust test
  - Exceptional water resistance
- Multi-application bearing grease
- Green color allows easy visual inspection
- Worker safe
- Extends relubrication intervals for bearings
- Excellent thermal and oxidative stability
- NSF® Certified: H2 Registration #142148

### Net Contents

14.1 oz. (400 g)  
35 lbs.

### Part No.

70714  
70706

### PROPERTIES:

**EMCOR Rust Test ASTM D-6138**  
(Distilled Water/10% Synthetic Sea Water): 0/0

**4-Ball Weld Load:** > 500 kg.

**Timken "OK" Load:** > 40 lbs.

**Appearance:** Green colored paste

**Base Oil Type:** Vegetable Oil

**Dropping Point:** 450°F (232°C)

### Base Oil Viscosity:

278 SUS @ 100°F (38°C)

55 cst. @ 100°F (38°C)

10.8 cst. @ 210°F (99°C)

### Temperature Range:

-10°F to 370°F (-23°C to 188°C)

**Water Washout (ASTM D-1264)**

@ 175°F (77°C): 3.30%



## THERMAPLEX® FOODLUBE BEARING GREASE



- NSF® Certified: H1 Registration #117848
- Acceptable for use in Canadian Food Processing Establishments
- Uses only FDA listed ingredients
- Ensures safety in areas where incidental food contact may occur
- High degree of water resistance
- Excellent corrosion protection
- Very good load capacity
- Extends lubrication intervals
- Does not contain silicone
- Non-staining and non-emulsifying

### Net Contents

14.1 oz. (400 g)  
35 lbs.  
120 lbs.  
400 lbs.

### Part No.

70114  
70106  
70135  
70155

### PROPERTIES:

**Appearance:** White colored paste

**Temperature Range:**

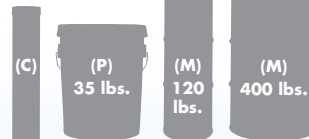
-4°F (-20°C) to 300°F (149°C)

**Dropping Point:** 500°F (260°C)

**4-Ball Weld Load:** >400 kg.

**Timken "OK" Load:** 40 lbs.

For Base Oil Viscosity download TDS from [www.lpslabs.com](http://www.lpslabs.com)



**THICKENER TYPE:**  
CALCIUM SULFONATE

**NEW**



## THERMAPLEX® CS MOLY BEARING GREASE



- Enhanced with molybdenum disulfide
- Reduces wear from vibration
- Prolongs bearing life
  - Very high load carrying capacity
  - Superior water resistance
  - Excellent rust and corrosion protection - Perfect score on the EMCOR rust test
- Multi-application bearing grease
- Extends relubrication intervals for bearings
- Excellent oxidation stability
- NSF® Certified: H2 Registration #142214

### Net Contents

14.1 oz. (400 g)  
35 lbs.

### Part No.

70814  
70806

### PROPERTIES:

**Appearance:** Gray/Black colored paste

**Temperature Range:**

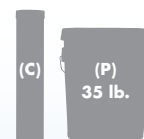
0°F to 425°F (-18°C to 218°C)

**Dropping Point:** 570°F (300°C)

**4-Ball Weld Load:** >600 kg.

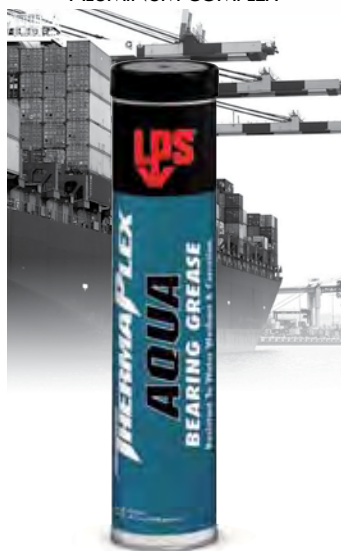
**Timken "OK" Load:** 65 lbs.

For Base Oil Viscosity download TDS from [www.lpslabs.com](http://www.lpslabs.com)



# GREASES

**THICKENER TYPE:**  
ALUMINUM COMPLEX



## THERMAPLEX® AQUA BEARING GREASE

**LO** **NLGI** **EP**  
**TOX** **2**

- Excellent resistance to fresh and salt water
- Resists water washout
- Good adhesion properties
- Excellent corrosion resistance
- Significant load carrying capability
- Reduces wear
- Reduces grease consumption
- Greater degree of bearing protection

Net Contents	Part No.
14.1 oz. (400 g)	70514
35 lbs.	70506
120 lbs.	70535
400 lbs.	70555

### PROPERTIES:

**Appearance:** Amber colored paste  
**Temperature Range:**  
 -4°F (-20°C) to 302°F (150°C)  
**Dropping Point:** 500°F (260°C)  
**4-Ball Weld Load:** >315 kg.  
**Timken "OK" Load:** 50 lbs.

For Base Oil Viscosity download TDS from  
[www.lpslabs.com](http://www.lpslabs.com)



**THICKENER TYPE:**  
LITHIUM COMPLEX



## THERMAPLEX® MULTI-PURPOSE BEARING GREASE

**LO** **NLGI** **EP**  
**TOX** **2**

- Long life
- Excellent load carrying properties
- Extends relubrication periods
- Prolongs bearing life
- Good corrosion resistance
- Ideal for lubricating all types of bearings
- Reduces grease consumption

Net Contents	Part No.
14.1 oz. (400 g)	70614
35 lbs.	70606
120 lbs.	70635
400 lbs.	70655

### PROPERTIES:

**Appearance:** Blue colored paste  
**Temperature Range:**  
 -22°F (-30°C) to 350°F (177°C)  
**Dropping Point:** 429°F (220°C)  
**4-Ball Weld Load:** >600 kg.  
**Timken "OK" Load:** 50 lbs.

For Base Oil Viscosity download TDS from  
[www.lpslabs.com](http://www.lpslabs.com)



## THERMAPLEX® HI-LOAD BEARING GREASE

**LO** **NLGI** **EP**  
**TOX** **2**

- Excellent load carrying ability
- Withstands shock loading
- Reduces wear from vibration
- Contains 3% moly
- Good corrosion resistance
- Excellent anti-wear properties
- Wide operating temperature range
- Reduces maintenance costs

Net Contents	Part No.
14.1 oz. (400 g)	70414
35 lbs.	70406
120 lbs.	70435
400 lbs.	70455

### PROPERTIES:

**Appearance:** Black colored paste  
**Temperature Range:**  
 -22°F (-30°C) to 350°F (177°C)  
**Dropping Point:** 429°F (220°C)  
**4-Ball Weld Load:** >600 kg.  
**Timken "OK" Load:** 50 lbs.

For Base Oil Viscosity download TDS from  
[www.lpslabs.com](http://www.lpslabs.com)



## THERMAPLEX® HI-TEMP BEARING GREASE

**LO** **NLGI** **HI** **EP**  
**TOX** **2** **TEMP**

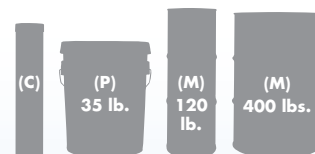
- Reduces risk of bearing failure at high temperatures
- Excellent high temperature performance
- Resists carbonization at high temperatures
- Extends relubrication intervals
- Very high dropping point
- Ensures optimal production rates
- Excellent vibration resistance
- Reduces grease consumption

Net Contents	Part No.
14.1 oz. (400 g)	70214
35 lbs.	70206
120 lbs.	70235
400 lbs.	70255

### PROPERTIES:

**Appearance:** Brown colored paste  
**Temperature Range:**  
 -15°F (-26°C) to 392°F (200°C)  
**Dropping Point:** 536°F (280°C)  
**4-Ball Weld Load:** >400 kg.  
**Timken "OK" Load:** 70 lbs.

For Base Oil Viscosity download TDS from  
[www.lpslabs.com](http://www.lpslabs.com)



**THICKENER TYPE:**  
ALUMINUM COMPLEX

**NEW**



## CLEAR PENETRATING GREASE



- NSF® Certified: H1 Registration # 143804 (Aerosol)
- High tack
- Quick penetrating action
- Resists water washout
- Temperature range: 0°F (-18°C) to 400°F (204°C)
- Protects against corrosion

**Net Contents** 11 wt. oz./312 g/420 mL **Part No.** 06716

### PROPERTIES:

**Appearance:** Translucent  
**Temperature Range:** 0°F (-18°C) to 400°F (204°C)  
**Dropping Point:** 500°F (260°C)  
**4-Ball Weld Load:** 126 kg.  
**Wear Scar Diameter:** 0.7

For Base Oil Viscosity download TDS from  
[www.lpslabs.com](http://www.lpslabs.com)

Product contains:  
 Metal Detectable Plastic  
 Aerosol Components



Scan QR Code to view demo  
 video of Clear Penetrating  
 Grease or go to  
[www.lpslabs.com/  
 LPS\\_ProductVideos.html](http://www.lpslabs.com/LPS_ProductVideos.html)



**THICKENER TYPE:**  
INORGANIC (NON-MELTING)



## RED & REDI MULTI-PURPOSE RED GREASE



- Delivers excellent lubrication
- Prevents rust, corrosion, and oxidation
- Red color allows easy visual inspection
- Remains effective at extremely high temperatures 450°F (232°C)
- Penetrates quickly
- Reduces friction and vibration
- Provides non-sling lubrication

**Net Contents** 11 wt. oz./312 g/451 mL **Part No.** 05816

### PROPERTIES:

**Appearance:** Red  
**Temperature Range:** -22°F (-30°C) to 450°F (232°C)  
**Dropping Point:** 550°F (288°C)  
**4-Ball Weld Load:** >250 kg.  
**Timken "OK" Load:** 30 lbs.

For Base Oil Viscosity download TDS from  
[www.lpslabs.com](http://www.lpslabs.com)



**THICKENER TYPE:**  
LITHIUM COMPLEX



## WHITE LITHIUM GREASE WITH PTFE



- Rapidly forms into a pure white grease that will not melt or wash away
- Provides maximum lubrication
- Rust and oxidation inhibitors protect metal
- Pure white color allows easy visual inspection
- Heat and water resistant
- Acceptable for use in Canadian Food Processing Establishments

**Net Contents** 10 wt. oz./284 g/418 mL **Part No.** 03816

### PROPERTIES:

**Appearance:** White  
**Temperature Range:** 5°F (-15°C) to 290°F (143°C)  
**Dropping Point:** 350°F (177°C)  
**4-Ball Weld Load:** >315 kg.  
**Timken "OK" Load:** 45 lbs.

For Base Oil Viscosity download TDS from  
[www.lpslabs.com](http://www.lpslabs.com)



# TECHNICAL PROPERTIES: GREASES

## TEMPERATURE RANGE


THERMAPLEX® BIO GREEN™				-10°F (-23°C)									370°F (188°C)		
THERMAPLEX® CS MOLY				0°F (-18°C)									425°F (218°C)		
THERMAPLEX® MULTI-PURPOSE				-22°F (-30°C)								350°F (177°C)			
THERMAPLEX® FOODLUBE				-4°F (-20°C)								300°F (149°C)			
THERMAPLEX® AQUA				-4°F (-20°C)								302°F (150°C)			
THERMAPLEX® HI-TEMP				-15°F (-26°C)								392°F (200°C)			
THERMAPLEX® HI-LOAD				-22°F (-30°C)								350°F (177°C)			
<b>AEROSOLS</b>															
CLEAR PENETRATING GREASE				0°F (-18°C)									400°F (204°C)		
RED & REDI				-22°F (-30°C)									450°F (232°C)		
WHITE LITHIUM				5°F (-15°C)								290°F (143°C)			
	°F	-75°	-50°	-25°	0°	50°	100°	150°	200°	250°	300°	350°	400°	450°	500°
	°C	-59°	-46°	-31°	-18°	10°	38°	65°	93°	121°	149°	177°	204°	232°	260°

## TIMKEN "OK" LOAD

THERMAPLEX® BIO GREEN™					40										
THERMAPLEX® CS MOLY										65					
THERMAPLEX® MULTI-PURPOSE						50									
THERMAPLEX® FOODLUBE					40										
THERMAPLEX® AQUA						50									
THERMAPLEX® HI-TEMP										70					
THERMAPLEX® HI-LOAD						50									
<b>AEROSOLS</b>															
CLEAR PENETRATING GREASE	NOT ESTABLISHED														
RED & REDI				30											
WHITE LITHIUM						45									
pounds (lbs.)	10	20	30	40	50	60	70	80	90	100					

## 4-BALL WELD LOAD






THERMAPLEX® BIO GREEN™					500										
THERMAPLEX® CS MOLY						600									
THERMAPLEX® MULTI-PURPOSE						600									
THERMAPLEX® FOODLUBE				400											
THERMAPLEX® AQUA			315												
THERMAPLEX® HI-TEMP				400											
THERMAPLEX® HI-LOAD						600									
<b>AEROSOLS</b>															
CLEAR PENETRATING GREASE	NOT ESTABLISHED														
RED & REDI			250												
WHITE LITHIUM				315											
kilograms (kg)	100	200	300	400	500	600	700	800	900	1000					

	GREASE COLOR	NSF® CERTIFIED		PTFE	NON FLAMMABLE	CONTAINS MOLY	WATER RESISTANT	THICKENER TYPE			
								ALUMINUM COMPLEX	CALCIUM SULFONATE	LITHIUM COMPLEX	BENTONE CLAY
THERMAPLEX® BIO GREEN™	GREEN	H2			●		●	●			
THERMAPLEX® CS MOLY	GREY/BLACK	H2			●	●	●		●		
THERMAPLEX® MULTI-PURPOSE	BLUE				●					●	
THERMAPLEX® FOODLUBE	WHITE	H1	●		●		●	●			
THERMAPLEX® AQUA	AMBER				●		●	●			
THERMAPLEX® HI-TEMP	BROWN				●					●	
THERMAPLEX® HI-LOAD	BLACK				●	●				●	
<b>AEROSOLS</b>											
CLEAR PENETRATING GREASE	CLEAR	H1					●	●			
RED & REDI	RED						●				●
WHITE LITHIUM	WHITE		●	●			●			●	



# CORROSION INHIBITORS

## AVAILABLE SIZES

					
	AEROSOL	TRIGGER 20 OZ.	1 GAL. METAL	5 GAL. METAL	55 GAL. METAL
BRIGHTCOAT COLD GALVANIZE	●				
COLD GALVANIZE	●		●		
HARDCOAT	●		●	●	●
LPS 3®	●	●	●	●	●
PROCYON	●		●	●	●

# CORROSION INHIBITORS



## LPS 3® PREMIER RUST INHIBITOR



- Protects for up to 2 years indoors
- Prevents rust and corrosion
- Provides non-sling lubrication
- Self-healing, soft, waxy film
- Safe to use on most surfaces
- NSF® Certified: H2 Registration # 129027 (Aerosol); # 059849 (Bulk)
- Acceptable for use in Canadian Food Processing Establishments

Net Contents	Part No.
11 wt. oz./312g/380mL	00316
20 fl. oz. (591 mL)	00322
1 gal. (3.78 L)	03128
5 gal. (18.93 L)	00305
55 gal. (208 L)	00355
11 wt. oz./312g/377mL	C30316

### MEETS OR EXCEEDS THESE SPECS:

Airbus AIMS 09-08-001  
Airbus TN A.007.10138 Type I

Grade 2  
ASTM F-945

Boeing BMS 3-23G Type II  
MIL-PRF-16173E Grade 2 Class 1

\*See page 46 for more specs

NSN 8030-00-118-0666 (11 wt. oz.)  
NSN 6850-00-363-0841 (1 gal.)



## PROCYON CORROSION INHIBITOR



- Protects aluminum from salt fog for more than 2,500 hours
- Multi-year protection of metal
- Durable, hard, transparent film
- Resistant to saltwater, salt spray, moisture, acid, alkali fumes and other corrosive elements
- Wide operating temperature range
- Resists dripping and puddling during spray application
- Ready-to-use and can be applied with conventional airless or air-operated spray equipment
- Safe to use on most surfaces

Net Contents	Part No.
10 wt. oz./284g/394mL	04216
1 gal. (3.78 L)	04228
5 gal. (18.93 L)	04205
55 gal. (208 L)	04255

### MEETS OR EXCEEDS THESE SPECS:

Boeing BMS 3-29 Rev.D  
Bombardier (Canadair) CMS 565-006 Type 2

\*See page 46 for more specs

NSN 9150-01-560-9474 (10 wt. oz.)



## HARDCOAT CORROSION INHIBITOR



- 1,500+ hours salt spray resistance on aluminum
- Commonly used on sides and tops of aircraft fuselages
- Resists dripping and puddling during spray application
- Durable, hard, transparent film
- Ready-to-use and can be applied with conventional airless or air-operated spray equipment
- Safe to use on most surfaces

Net Contents	Part No.
10 wt. oz./284g/396mL	03316
1 gal. (3.78 L)	03328
5 gal. (18.93 L)	03305
55 gal. (208 L)	03355

### MEETS OR EXCEEDS THESE SPECS:

Boeing BMS 3-23G Type II  
Bombardier (Canadair) CMS 565-006 Type I

Bombardier DeHavilland DHMS C4.12 Type II Grade 3  
Delta Airlines

Lockheed Martin Heavy Duty CPC 3a  
Polar Air Cargo



## COLD GALVANIZE CORROSION INHIBITOR



- Zinc-rich galvanized coating - Zinc Purity: 99+%
- Works like a hot-dip on ferrous metals indoors and out
- Withstands water temperature up to 212°F (100°C) and continuous dry heat up to 750°F (400°C)
- Commonly used as a flash rust preventive on welded areas
- Inhibits rust on steel under aggressive conditions
- Flexible coating will not yellow, chalk, crack, or peel
- Electrochemically protects bare metal
- Dries in 3-5 minutes
- Acceptable for use in Canadian Food Processing Establishments

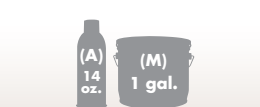
Net Contents	Part No.
14 wt. oz./397g/389mL	00516
1 gal. (3.78 L)	05128

### MEETS OR EXCEEDS THESE SPECS:

ASTM A-780  
MIL-P-21035, Amendment I

NSN 8010-00-214-7241 (14 wt. oz.)

\*Aerosol only



## BRIGHTCOAT COLD GALVANIZE CORROSION INHIBITOR



- Shiny zinc coating
- Prevents rust and corrosion on all metals
- Restores hot dip galvanizing
- Dries to touch in 15 to 30 minutes
- Repairs rusted, galvanized, and welded surfaces
- Electrochemically protects bare metal
- Heat resistant, flexible coating
- Will not yellow, chalk, crack, or peel

Net Contents	Part No.
13 wt. oz./369g/459mL	05916





# TECHNICAL PROPERTIES: CORROSION INHIBITORS

## PROTECTION LONGEVITY

WAX AND RESIN-BASED CORROSION INHIBITORS																		
HARDCOAT	INDOORS																	26
	3 OUTDOORS																	
LPS 3®	INDOORS																	24
	OUTDOORS					9												
PROCYON	INDOORS																	36
	3 OUTDOORS																	
ZINC-BASED CORROSION INHIBITORS																		
BRIGHTCOAT COLD GALVANIZE	INDOORS						12											
	OUTDOORS						12											
COLD GALVANIZE	INDOORS																	36
	OUTDOORS												24					
MONTHS	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36

## SALT SPRAY RESISTANCE










WAX AND RESIN-BASED CORROSION INHIBITORS															
HARDCOAT	1500 HRS. ON AMS 4037 ALUMINUM PER ASTM B-117														
LPS 3®	1500 HRS. ON AMS 4037 ALUMINUM PER ASTM B-117														
PROCYON	2500 HRS. ON AMS 4037 ALUMINUM PER ASTM B-117														
ZINC-BASED CORROSION INHIBITORS															
BRIGHTCOAT COLD GALVANIZE	NOT ESTABLISHED														
COLD GALVANIZE	2800 HRS. ON MILD STEEL PER ASTM B-117														
HOURS	200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000

	NSF® CERTIFIED		PAINTABLE	RESISTS HIGH TEMPERATURES	LOW ODOR	WATER RESISTANT
WAX AND RESIN-BASED CORROSION INHIBITORS						
LPS 3®		●			●	●
HARDCOAT					●	●
PROCYON					●	●
ZINC-BASED CORROSION INHIBITORS						
BRIGHTCOAT COLD GALVANIZE				●		●
COLD GALVANIZE		●	●	●		●



# CUTTING FLUIDS

## AVAILABLE SIZES

									
	AEROSOL	TUBE	CARTRIDGE	16 OZ. BOTTLE PLASTIC	1 GAL. PLASTIC	METAL	5 GAL. PLASTIC	55 GAL. PLASTIC	METAL
TAPMATIC® #1 GOLD	●			●	●		●	●	
TAPMATIC® NATURAL				●	●		●	●	
TAPMATIC® AQUACUT				●	●		●	●	
TAPMATIC® TRICUT				●	●				
TAPMATIC® D. ACTION PLUS #2				●		●			●
TAPMATIC® EDGE LUBE			●						
TAPMATIC® EDGE CREME		●							

# CUTTING FLUIDS

## DESIGNED FOR ALL METALS

## DESIGNED FOR ALUMINUM



### TAPMATIC® #1 GOLD CUTTING FLUID

NO  
CHLOR  
SOLV

- Great for all metals including aluminum
- Increases tool life and improves surface finish
- Requires less product usage than traditional cutting fluids
- Does not contain chlorinated paraffins
- Reduces cutting torque and improves cutting efficiency
- Does not contain water, solvents, or inactive fillers
- Excellent for tapping applications

Net Contents	Part No.
11 wt. oz./312 g/344 mL	40312
16 fl.oz. (473 mL)	40320
1 gal. (3.78 L)	40330
5 gal. (18.93 L)	40340
55 gal. (208 L)	40360

**MEETS OR EXCEEDS THIS SPEC:**  
Boeing BAC 5008

NSN 9150-01-544-6047 (11 wt. oz.)



### TAPMATIC® NATURAL CUTTING FLUID

BIO NO  
CHLOR  
SOLV LO  
TOX

- Non-hazardous
- Does not irritate the skin, eyes or respiratory tract
- Does not contain sulfur, chlorine, water, mineral oil, or inactive fillers
- Great for steel and aluminum
- High performance lubricating ability eliminates galling and seizing
- Safe on all metals

Net Contents	Part No.
16 fl.oz. (473 mL)	44220
1 gal. (3.78 L)	44230
5 gal. (18.93 L)	44240
55 gal. (208 L)	44260



### TAPMATIC® AQUACUT CUTTING FLUID

NO  
CHLOR  
SOLV LO  
TOX LO  
ODOR

- Water-based formula
- Excellent in applications where cooling of the tool is desired
- Non-hazardous
- Does not contain sulfur, chlorine, or oils
- Safe on all metals, except magnesium
- Corrosion inhibitors prevent flash rusting
- Provides fine finishes
- Cinnamon scent

Net Contents	Part No.
16 fl.oz. (473 mL)	01216
1 gal. (3.78 L)	01228
5 gal. (18.93 L)	01205
55 gal. (208 L)	01255

NSN 9150-01-450-5693 (16 fl. oz.)



### TAPMATIC® DUAL ACTION PLUS #2 CUTTING FLUID

NO  
CHLOR  
SOLV

- Designed especially for machining aluminum
- Provides superior extreme pressure lubricity in machining aluminum and its alloys
- Reduces friction and eliminates chip welding
- Improves surface finish and extends tool life

Net Contents	Part No.
16 fl.oz. (473 mL)	40220*
1 gal. (3.78 L)	40230*
55 gal. (208 L)	40260*

\*Not available in Canada



# CUTTING FLUIDS

DESIGNED FOR STAINLESS STEEL  
AND OTHER HARD-TO-MACHINE METALS



## TAPMATIC® TRICUT

CUTTING FLUID

EP

- Excellent for stainless steel and other hard to machine metals
- Extends tool life
- Not recommended for aluminum
- Provides smooth, accurate cutting action
- Flows directly to cutting edge
- Improves surface finish
- Reduces friction
- Suitable for high and low speed applications
- Non-corrosive to steel

### Net Contents

16 fl.oz. (473 mL)  
1 gal. (3.78 L)

### Part No.

05316  
05328



EXCELLENT FOR BAND SAWS



## TAPMATIC® EDGE LUBE

CUTTING FLUID

BIO

LO  
ODOR

- White, solid, waxy bar
- Excellent for belt, wheel or disc grinding, and sawing applications
- Eliminates heat build-up and belt loading
- Does not contain any hazardous chemicals
- Extends grinding wheel life
- Low toxicity

### Net Contents

13 oz. (364 g)

### Part No.

43200

(C)

DESIGNED FOR  
PIPE-BENDING AND CUTTING



## TAPMATIC® EDGE CREME

CUTTING FLUID

BIO

LO  
ODOR

- Excellent for vertical applications
- Squeeze tube allows easy application
- For use when drilling, tapping blind holes, forming, bending, pre-coating fasteners, and lubricating rubber seals
- Does not contain any hazardous chemicals
- Ecological and economical
- Safe on all metals
- Can be applied to cutting tools before tapping or reaming

### Net Contents

10 fl.oz. (296 mL)

### Part No.

43100

### MEETS OR EXCEEDS THIS SPEC:

Delta Airlines

(TU)

# APPLICATION GUIDE: CUTTING FLUIDS

	TAPMATIC® CUTTING FLUIDS						
	#1 GOLD	NATURAL	AQUACUT	TRICUT	DUAL ACTION PLUS #2	EDGE LUBE	EDGE CREME
NON-FERROUS METALS							
ALUMINUM	•	•	•		•	•	•
FORMED ALUMINUM	•	•	•		•		
BISMUTH		•	•				
BRASS	•	•	•		•	•	•
BRONZE	•	•	•		•	•	•
CADMIUM	•		•				
CHROMIUM	•	•	•	•			
COPPER	•	•	•		•	•	•
GOLD	•	•	•		•	•	•
LEAD	•	•	•		•	•	•
MAGNESIUM	•	•					
MOLYBDENUM				•			
NICKEL				•	•		
PLATINUM	•						
SILVER	•	•	•		•	•	•
TIN	•	•	•		•	•	•
TITANIUM		•		•			
TUNGSTEN	•	•				•	•
ZINC	•		•	•		•	•
FERROUS METALS							
CAST IRON	•			•			
STEEL	•			•			
HIGH TENSILE STEEL	•			•			
STAINLESS STEEL				•			
OTHER MATERIALS							
CERAMICS							•
PLASTICS							•

APPLICATION TYPES							
DEEP HOLE DRILLING, BORING, GUN DRILLING	•	•	•		•		
DRILLING, MILLING, PLANING, REAMING, SHAPING, TURNING	•						
GRINDING	•		•		•	•	
HOBBIING, GEAR CUTTING & SHAPING		•					
PIPE THREADING	•						
PUNCHING & NIBBLING		•		•			•
SAWING	•					•	
SHEARING & CUTTING				•			•
STAMPING & FORMING		•		•			•
TAPPING	•	•		•			

FEATURES & BENEFITS							
COOLING EFFECT			•				
BIODEGRADABLE		•				•	•
HIGH SPEED MACHINING			•	•			
MID SPEED MACHINING	•	•	•	•	•	•	•
LOW SPEED MACHINING	•	•			•	•	•



# SPECIALTY MRO PRODUCTS





## D'GEL®-FO

FIBER OPTIC CABLE  
GEL REMOVER



- Designed to remove cable gels, water blocks and filling compounds from fiber optic cables
- Compatible with fiber optic cable components and accessories
- Cleans all contaminants from glass fiber
- Field proven since 1989 by cable manufacturers, telephone companies, and contractors
- Evaporates completely leaving no residue
- Flash point above 140°F (60°C)
- Worker friendly
- No ozone depletion potential

Net Contents	Part No.
144 single towels per case	61200*

### APPLICATIONS:

- |                      |                       |
|----------------------|-----------------------|
| • Blocking Compounds | • Oil                 |
| • Copper Cables      | • Painted Surfaces    |
| • Equipment          | • Removing Cable Gels |
| • Fiber Optic Cables | • Resin               |
| • Filling Compounds  | • Tar                 |
| • Forming Compounds  | • Tools               |
| • Grease             | • Wax                 |

\*Not available in Canada



## D'GEL®

CABLE GEL SOLVENT



- Removes cable gels, icky pic, blocking compounds, flooding and filling compounds, grease, tar, and oil
- Removes petroleum, polyethylene, and silicone based gels
- Preferred by Telecom workers
- Flash point above 140°F (60°C)
- Bellcore tested for complete compatibility with Telco components
- Safe on cable insulation and components, metals, and most plastics
- No ozone depletion potential
- Rinses off with water
- The original formula, since 1986

Net Contents	Part No.
144 single towels per case	61244
32 oz. bottle (946 mL)	61232
1 gal. (3.78 L)	61201
55 gal. (208 L)	61255*
3 quart bags	61296*

### APPLICATIONS:

- |                      |                       |
|----------------------|-----------------------|
| • Blocking Compounds | • Oil                 |
| • Copper Cables      | • Painted Surfaces    |
| • Equipment          | • Removing Cable Gels |
| • Fiber Optic Cables | • Resin               |
| • Filling Compounds  | • Tar                 |
| • Flooding Compounds | • Tools               |
| • Grease             | • Wax                 |

\*Not available in Canada



## PREMIUM LEAK DETECTOR



- Identifies gas and air leaks quickly
- Bubbles when exposed to gas leaks
- Meets or exceeds strict Telco performance specs
- No ethylene glycol
- Non-hazardous
- All-weather formula

Net Contents	Part No.
Ready-To-Use	
16 fl. oz. (473 mL)	61016
Concentrate	
1 gal. (3.78 L)	61006

### APPLICATIONS:

- |                           |                             |
|---------------------------|-----------------------------|
| • Air Leaks               | • Lead Cable Sheath         |
| • Air Pipes               | • Natural Gas Meters        |
| • Air Tools               | • Pneumatic Pipe and Ducts  |
| • Air Hose                | • Propane Tanks             |
| • Compressors             | • Polyethylene Cable Sheath |
| • Fittings and Connectors | • Refrigeration Equipment   |
| • Gas Appliances          | • Sleeves & Splice Cases    |



# SPECIALTY MRO PRODUCTS



## WORKPLACE HAND CLEANER TOWELS



- Uniformly premoistened towel
- Superior terpene blend
- Deep cleaning, non-scratching abrasives quickly remove embedded dirt and grime
- Fast acting
- Disposable
- Eliminates the need for soap, water, and a sink
- Improves workplace productivity by reducing costly clean-up time
- Does not require water
- Easy to carry and store
- Convenient

**Net Contents**      **Part No.**  
Bucket of 72 Towels      09200  
8" x 12-1/4" (20.3cm x 31.1cm)  
Premoistened Towels



## STRONG STEEL STICKS



- Hand-kneadable epoxy, ready-to-use stick for fast emergency repairs
- Hardens like steel in 20 minutes
- Can be machined, drilled, tapped, and painted in 30 minutes
- Plugs and seals leaks
- Permanently fill gaps and holes in metal, concrete, wood, fiberglass, and ceramics
- Patches holes and cracks in pipes, drums, and tanks
- Can be used for underwater repairs

**Net Contents**      **Part No.**  
4 oz. (114 g)      60159



## ANTI-SPATTER



- Unique water-based formula that prevents weld spatter from sticking to metal
- Oversized, E-Z Spray Nozzle is ideal when wearing welding gloves
- Does not contain silicone
- Paint compatible
- Eliminates the need for chiseling, grinding, or brushing after welding
- Acceptable for use in Canadian Food Processing Establishments

**Net Contents**      **Part No.**  
13 wt. oz. / 369 g / 369 mL      02116



## BELT DRESSING



- NSF® Certified: H1 Registration # 134508
- Acceptable for use in Canadian Food Processing Establishments
- Prevents belt slippage on flat, round, and V-belts
- Eliminates squeaks from slipping belts
- Water resistant
- Extends belt life and pulley bearing life
- Does not deteriorate drive belts
- May be used in wet, outdoor conditions

**Net Contents**      **Part No.**  
10 wt. oz. / 284 g / 445 mL      02216

### MEETS OR EXCEEDS THIS SPEC:

FDA Regulation 21 CFR 178.3570 for incidental food contact

Product contains:  
Metal Detectable Plastic  
Aerosol Components



# SPECIALTY MRO PRODUCTS



**COATS FIBER OPTIC CABLES & COAXIAL CABLES**

## TECHLUBE®-FO

FIBER OPTIC CABLE PULLING LUBRICANT



- Water-based, pourable, low viscosity lubricant
- Coats evenly and clings to the cable
- Superior lubricating film
- Compatible with all types of cable jackets, inner duct, and conduit
- Coats fiber optic cables & coaxial cables
- Will not "cement" the cable to the bottom of the conduit

### Net Contents

1 gal. (3.78 L)  
5 gal. (18.93 L)

### Part No.

61701  
61705

### APPLICATIONS:

- Low density polyethylene
- Linear low density polyethylene
- Cross link polyethylene

### USAGE FORMULA: (NON-METRIC, USA)

1. For plastic conduit (PVC, ABS, Polyethylene) use the following:

$$Q = 0.0015 \times L \times D$$

2. For multiple concrete, clay tile, fiber cement, fiber filled, and wood conduit use the following:

$$Q = 0.0025 \times L \times D$$

- Q = Amount of Techlube FO needed in gallons.
- L = The total length of the pull in feet.
- D = The inside diameter of the individual conduit in inches.



**COMPATIBLE WITH ALL TYPES OF CABLE JACKET MATERIALS**

## TECHLUBE®-HD

HEAVY-DUTY CABLE PULLING LUBRICANT



- Water-based lubricant
- Coats power cables, copper cables, and for the installation of innerduct
- Provides maximum friction reduction for difficult cable pulling applications
- Leaves a lubricating film
- Will not "cement" the cable to the conduit

### Net Contents

5 gal. (18.93 L)

### Part No.

61105

### APPLICATIONS:

- Chlorinated Polyethylene
- Cross Linked Polyethylene
- Ethylene Propylene Rubber
- High Density Polyethylene
- Hypalon
- Linear Low Density Polyethylene
- Natural Rubber
- Neoprene
- Poly Vinyl Chloride

### USAGE FORMULA: (NON-METRIC, USA)

1. For plastic conduit (PVC, ABS, Polyethylene) use the following:

$$Q = 0.0013 \times L \times D$$

2. For multiple concrete, clay tile, fiber cement, fiber filled, and wood conduit use the following:

$$Q = 0.0020 \times L \times D$$

- Q = Amount of Techlube HD needed in gallons.
- L = The total length of the pull in feet.
- D = The inside diameter of the individual conduit in inches



# VALUE-ADDED SERVICES & PRODUCT FEATURES

## SERVICES:

### DIRECT SALES FORCE

Our factory-direct, technically trained, Regional Sales Managers are available to consult with both distributors and end-users to help eliminate chemical redundancies and hazards in your workplace by offering:

- MRO Chemical Assessments
- Safety Training
- Documented Cost Savings
- Product & Application Consulting

### ACCOUNT ADMINISTRATION

For a quick, timely response on any LPS® question, call one of our product trained Account Administrators.

### TECHNICAL/R&D CHEMISTS

Our applications chemists are ready to assist you. They will travel on site and hold in-plant Safety Seminars.

### RESEARCH & DEVELOPMENT CHEMISTS

LPS® is always researching and developing new products to maintain our dominance in the MRO chemical industry. We are constantly working to improve performance, value and safety not only in our formulations, but also in our packaging.

## WEBSITE: WWW.LPSLABS.COM

### INTERNET BUSINESS CENTER

Visit our Internet Business Center for: MSDS, WHMIS, technical data sheets, technical charts, certificates of conformance, NSF® approvals, shipping guides, new product announcements, press releases and company information.

### COMPLIANCE & REGULATIONS

LPS® remains committed to strict safety, health, and environmental standards. Not only is compliance a corporate objective, but significant regulatory service and support resources are dedicated in the way of personnel and state of the art equipment.

### USER-FRIENDLY PACKAGING

Inverta-Spray valves, Oversized E-Z spray nozzles, foil packaged wipes, plastic buckets, clear plastic bottles, hand grips, squeeze tubes and pinpoint applicators all contribute to making maintenance easier for you. Aerosol alternatives are available in our trigger spray bottles.

### WIDE RANGE OF SIZES

From a single application wipe, to an aerosol, to a 55-gallon drum, LPS® offers a broad range of package sizes to fit your specific needs.

### OZONE DEPLETION CONCERNS

LPS® is a leader in educating customers and developing replacement alternatives to harmful chemicals that attack the stratospheric ozone layer.

## ORDERS & SHIPMENTS

### ACCURACY & CONDITION

LPS® maintains 24 hour processing and shipping of orders in Atlanta with a 99+% fill rate. We have warehouses and distributors in:

**HEADQUARTERS** - USA: Atlanta, GA

**EUROPE:** Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Hungary, Ireland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Russia, Slovakia, Spain, Sweden, Switzerland, UK

**FAR EAST:** Australia, China, East Timor, Hong Kong, Indonesia, Malaysia, Nepal, New Zealand, Philippines, Singapore, South Korea, Taiwan, Thailand, Vietnam

**MIDDLE EAST & AFRICA:** U.A.E, Saudi Arabia, India, Egypt, Nigeria, South Africa, Kenya, Namibia, Botswana, Pakistan

**SOUTH AMERICA:** Brazil, Chile, Colombia, Dominican Republic, Ecuador, Mexico, Panama, Peru, Puerto Rico, Trinidad & Tobago, Venezuela

## DOCUMENTED COST SAVINGS PROGRAM

### ONE-SOURCE VENDOR

To simplify your business procedures and to offer you the most choices, LPS® has set up consolidation programs to eliminate redundant chemicals with over 80 products to choose from.

## EDI

### ELECTRONIC DATA INTERCHANGE (EDI)

LPS® can directly link electronically with customers to exchange purchase orders, shipping information and payments.

## MULTI-LINGUAL

### INTERNATIONAL FOCUS

LPS® products and supporting literature are available in multiple languages to support you or your customer's diversified workforce.

### UPC BAR CODING

Uniform Product Codes (UPCs) are printed on all packages and products to help you keep accurate stock levels.

### LITHOGRAPH AEROSOLS

Premium label printing of our products assures quality, legibility and packaging consistency. Many competitive products use paper labels which can be easily removed from the can.

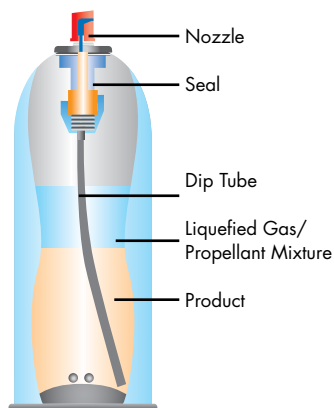
### RECYCLABLE MATERIALS

Whether it's steel aerosol cans, plastic bottles, or chipboard boxes, LPS® makes a concerted effort to package with recycled material.

### WARRANTY - SHELF LIFE

LPS® Laboratories warrants that its products will be free from material and workmanship defects under normal use and service for three years from the date of manufacture. LPS® will replace or credit the price paid by the distributor for any goods delivered by LPS® to the distributor, which are defective. Many of our products have a non-expiring shelf life if stored as stated in our warranty statement.

## THE AEROSOL ADVANTAGE



CONVENIENT  
EASY TO USE  
REQUIRES NO MIXING  
SMALL PACKAGE SIZE  
CONTROLLED APPLICATION  
TAMPER PROOF  
SPILL PROOF  
AIRTIGHT

## THE LPS® AEROSOL ADVANTAGE



HEAT CURED INK LABELING  
MULTI-LINGUAL LABELING  
EUROPEAN REGULATORY DATA  
CONTACT INFORMATION  
EXTENSION TUBE RETAINER  
DATE STAMP  
ALIGNMENT DOT  
ONE CHEMISTRY - ONE PRODUCT  
NEW - ENVIRONMENTALLY  
FRIENDLY AEROSOL CAN

# GLOSSARY

**4 BALL WELD TEST:** The Four Ball Tester is used to test the Wear Preventive (WP) and Extreme Pressure (EP) characteristics of greases and lubricating oils in sliding steel-on-steel applications.

**BIODEGRADABLE:** Capable of being decomposed by natural biological processes.

**CORROSION:** Rust, scale, oxidation, no matter the name, it's the insidious, slow destruction of metals due to moisture, chemical exposure, salts, etc.

**DIELECTRIC STRENGTH:** The maximum electrical voltage a liquid can withstand without breaking down.

**D-LIMONENE:** A natural citrus solvent derived primarily from orange peels.

**DROPPING POINT:** In general terms, the temperature above which grease breaks down. It is accompanied by a drastic loss in viscosity and structural integrity, i.e. the gel matrix turns to a liquid. The dropping point should never be exceeded since the integrity of the grease is forever compromised causing potentially severe bearing damage.

**EMCOR RUST TEST (ASTM D-6138):** This test method is used to assess the ability of grease to prevent corrosion in rolling bearings operated in the presence of distilled water, sodium chloride solution, or synthetic sea water. The "0/0" means that we had 0% corrosion on bearings coated with our grease in both distilled water and 0% corrosion in 10% synthetic sea water.

**EMULSION:** A mixture of two or more "un-blendable" liquids. In an emulsion, one liquid is dispersed in the other.

**EP (EXTREME PRESSURE) ADDITIVE:** Lubricant additive that prevents sliding metal surfaces from seizing under extreme pressure conditions.

**EXTREME PRESSURE (EP) PROPERTY:** That property of a grease that, under high applied loads, reduces scuffing, scoring and seizure of contacting surfaces. Common laboratory tests are Timken "OK" Load (ASTM D 2509 and ASTM D 2782) and Four Ball Load Wear Index (ASTM D 2596 and ASTM D 2783).

**FLASH POINT:** The temperature at which a volatile liquid, such as a solvent, will turn to gas and ignite when in the presence of a spark or flame.

**FRICTION:** The force resisting relative motion between two bodies. Friction depends on the smoothness of the contacting surfaces, as well as the force with which they are pressed together.

**INCOMPATIBILITY:** When a mixture of two greases shows physical properties or service performance which are markedly inferior to those of either of the greases before mixing, they are incompatible. Performance or properties inferior to one of the products and superior to the other may not be due to incompatibility.

**KAURI-BUTANOL VALUE (KB VALUE):** An international, standardized measure of solvent power for a hydrocarbon solvent, and is governed by an ASTM standardized test, ASTM D 1133. The result of this test is a scaleless index, usually referred to as the "Kb Value". A higher Kb Value means the solvent is more aggressive or active in the ability to dissolve certain materials. Mild solvents have low scores in the tens and twenties; powerful solvents like chlorinated solvents, have ratings that are in the low hundreds.

## Kb VALUE

10	20	30	40	50	60	70	80	90	100	110	120	130	140
CONTACT CLEANING PLASTIC SAFE					GENERAL DEGREASING MAY EFFECT PLASTICS							RESIN STRIPPING	
SAFE ON MOST PLASTICS TEST FOR COMPATIBILITY													

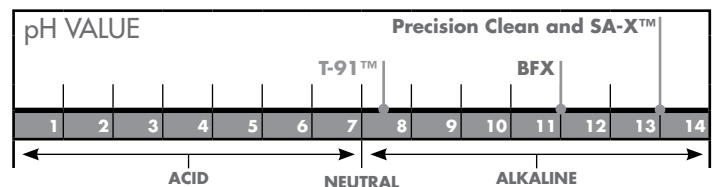
**MOLYBDENUM DISULFIDE:** An inorganic compound with the formula MoS<sub>2</sub>. This black crystalline sulfide of molybdenum occurs as the mineral molybdenite. In its appearance and feel, molybdenum disulfide is similar to graphite. It is widely used as a solid lubricant because of its low friction properties, and resistance to relatively high temperatures.

**NLGI GREASE GRADES:** Widely used classification for lubricating greases. It was established by the National Lubricating Grease Institute. Greases are classified in one of nine grades based on their consistency.

NLGI Grade	Worked Penetration (ASTM D 217) @ 77°F (25°C)	Appearance	Consistency Food Analog
000	445-475	Fluid	Cooking Oil
00	400-430	Semi-fluid	Applesauce
0	355-385	Very Soft	Brown Mustard
1	310-340	Soft	Tomato Paste
2	265-295	"Normal" Grease	Peanut Butter
3	220-250	Firm	Vegetable Shortening
4	175-205	Very Firm	Frozen Yogurt
5	130-160	Hard	Smooth Pate
6	85-115	Very Hard	Cheddar Cheese

**OSHA - FLAMMABLE:** A liquid is flammable if it has a flash point below 100°F (38°C). It is combustible if the flash point is between 100°F (38°C) and 200°F (93°C).

**PH:** A measure of the acidity or alkalinity of a solution. Based on 0 - 14 scale with acid less than 7 and alkaline over 7.



**PTFE OR POLYTETRAFLUOROETHYLENE:** PTFE is a fluorocarbon solid, as it is a high-molecular-weight compound consisting wholly of carbon and fluorine. PTFE has one of the lowest coefficients of friction against any solid and is thus utilized as a major ingredient in many lubricant formulations.

**SALT SPRAY TEST:** A standardized test method used to check corrosion resistance of coatings on metals against continuous or intermittent salt water spray.

**TIMKEN "OK" LOAD:** Produced and sold a lubricant test machine that was used to determine the EP (Extreme Pressure) characteristics of grease and oil lubricants. It became an industry-standard test. A bearing race is mounted on a tapered arbor that is rotating at a high speed. A square, steel test block is then loaded against the rotating race, with the contact area flooded with the test lubricant. The load on the block is increased in increments until the oil film is broken and the spinning race produces a score mark on the test block. The load-value that produces the score is then called the Timken "O.K." Load rating. Reference: [www.timken.com](http://www.timken.com)

**WATER WASHOUT (ASTM D-1264):** This test method estimates the resistance of greases to water washout from ball bearings. A grease sample is packed in a ball bearing and subjected to a steady water stream under controlled test conditions. The percentage of grease washed out in a one hour period is determined by weight.

# SELECTED CERTIFICATIONS & APPROVALS



## AEROSPACE & AVIATION

**Airbus ABR 9-0140 Type I:** F-104<sup>®</sup>  
**Airbus ABR 9-0140 Issue 5A Type I:** Instant Super Degreaser • A-151 • EVR  
**Airbus AIMS 09-08-001:** LPS 3<sup>®</sup>  
**Airbus SIL 20-006 Rev. 2:** PreSolve<sup>®</sup>  
**Airbus TN A.007.10138 Type I Grade 2:** LPS 3<sup>®</sup>  
**Allied Signal E5-2092:** LPS 1<sup>®</sup>  
**AMS 1525B:** CFC Free • PreSolve<sup>®</sup>  
**AMS 1526A:** Precision Clean  
**AMS 1526B:** PF<sup>®</sup> Solvent • PF<sup>®</sup>-141 IG • PF<sup>®</sup>-HP  
**AMS 1550B:** Precision Clean  
**ARP 1755A:** PF<sup>®</sup> Solvent • PF<sup>®</sup>-HP  
**ARP 1755B:** PF<sup>®</sup>-141 IG  
**ASTM F-519, Type 1C:** Precision Clean • CFC Free  
**ASTM A-780:** Cold Galvanize  
**ASTM D-2667:** Precision Clean  
**ASTM F-945:** A-151 • Electro 140<sup>°</sup> • LPS 3<sup>®</sup> • LST • PF<sup>®</sup> Solvent • PF<sup>®</sup>-HP  
**Boeing B737 Task 75-31-02-206-001-C00:** LPS 1<sup>®</sup>  
**Boeing BAC 5008:** Tapmatic<sup>®</sup> #1 Gold  
**Boeing BAC 5750 Rev. J:** ZeroTri  
**Boeing BMS-3-23G Type II:** HardCoat • LPS 3<sup>®</sup>  
**Boeing BMS-3-29 Rev. D:** Procyon  
**Boeing D6-17487 Rev. H:** Precision Clean  
**Boeing D6-17487 Rev. J:** PF<sup>®</sup>-HP • PF<sup>®</sup> Solvent  
**Boeing D6-17487 Rev. L:** PF<sup>®</sup>-141 IG • F-104<sup>®</sup>  
**Boeing D6-17487 Rev. P:** A-151 • EM-Citro (Bulk) • EVR • Instant Super Degreaser • NoFlash<sup>®</sup> • NoFlash<sup>®</sup> NU  
**Bombardier (Canadair) BAMS 569-001:** LPS 1<sup>®</sup>  
**Bombardier (Canadair) BAPS 180-009 Rev. C FE type cleaner:** Electro 140<sup>°</sup>  
**Bombardier (Canadair) BAPS 180-009 Rev. C G & FP type cleaner:** PF<sup>®</sup> Solvent  
**Bombardier (Canadair) CMS 565-006 Type I:** HardCoat  
**Bombardier (Canadair) CMS 565-006 Type 2:** Procyon  
**Bombardier DeHavilland DHMS C4.12 Type I Grade 3:** LPS 3<sup>®</sup>  
**Bombardier DeHavilland DHMS C4.12 Type II Grade 3:** HardCoat  
**Bombardier DeHavilland DHMS C4.12 Type II Grade 4:** Procyon  
**British Airways LPSPCCD800:** Precision Clean  
**Canadian Airlines Materials Manual Section 11-5 (GEN-8-98-1):** Procyon  
**Cessna Approval #244689:** PSC  
**DeHavilland PPS ACN 16.01/2:** Procyon  
**Delta Airlines:** HardCoat • LPS 1<sup>®</sup> • NoFlash<sup>®</sup> • Procyon • Tapmatic<sup>®</sup> Edge Crème  
**Embraer EMB 120 Brasilia C.P.M.-120/1181 Type A-1:** LPS 3<sup>®</sup>  
**Embraer EMB 120 Brasilia C.P.M.-120/1181 Type A-2:** Procyon  
**Embraer EMB 120 Brasilia C.P.M.-120/1181 Type B-1:** A-151  
**Federal Express SRM 51-10-2:** Procyon  
**FLS Aerospace B757, A320:** Precision Clean  
**Gulfstream GAC115AD:** Procyon  
**Learjet LES 1239J:** NoFlash<sup>®</sup> • Electro 140<sup>°</sup> • A-151 • F-104<sup>®</sup>  
**Learjet M35A/M36B, M55 and Aeronca Maintenance Manuals (M3735-01-98-0042):** Dry Film PTFE Lubricant  
**Lockheed Martin CPC 2c & 3b lubricating:** LPS 2<sup>®</sup>  
**Lockheed Martin CPC Penetrating 2a:** Procyon  
**Lockheed Martin DSDN H01.1578:** Precision Clean  
**Lockheed Martin DSDN H01.2101:** CFC Free  
**Lockheed Martin DSDN H01.3086:** PreSolve<sup>®</sup>  
**Lockheed Martin EPSN G34.031:** LPS 1<sup>®</sup>  
**Lockheed Martin EPSN G39.04:** LPS 2<sup>®</sup>  
**Lockheed Martin EPSN G39.2004:** LPS 3<sup>®</sup>  
**Lockheed Martin Heavy Duty CPC 2b:** LPS 3<sup>®</sup>  
**Lockheed Martin Heavy Duty CPC 3a:** HardCoat  
**Martin Marietta MMS M2-10028:** Electro 140<sup>°</sup>  
**McDonnell Douglas CSD #1:** Precision Clean • Electro 140<sup>°</sup> • Instant Super Degreaser • NoFlash<sup>®</sup> • NoFlash<sup>®</sup> NU • PreSolve<sup>®</sup> • A-151 • PF<sup>®</sup> Solvent • PF<sup>®</sup>-141 IG • PF<sup>®</sup>-HP  
**McDonnell Douglas DMS 2150:** LPS 3<sup>®</sup>  
**Polar Air Cargo:** HardCoat • Procyon  
**Pratt & Whitney PMC 9545 SPOD 427:** LST  
**Pratt & Whitney PWA 36604:** LPS 3<sup>®</sup>  
**Pratt & Whitney Canada CPMC 79138-1:** Procyon  
**Pratt & Whitney Canada CPMC 79255 Rev. C:** LPS 1<sup>®</sup>  
**Pratt & Whitney Canada CPMC 79256 Rev. C:** LPS 2<sup>®</sup>  
**Pratt & Whitney Canada LCPMC 79133 Rev. D:** LPS 3<sup>®</sup>  
**Pratt & Whitney Canada MMC 21529:** PreSolve<sup>®</sup>  
**Pratt & Whitney Canada MMC 21530:** ZeroTri  
**Pratt & Whitney Canada MMC 21539:** ChainMate<sup>®</sup>  
**Rolls Royce Overhaul Process 340:** LPS 1<sup>®</sup>  
**SAAB 340 Maintenance Manual:** LPS 3<sup>®</sup>  
**United Technologies USB1 99606-0012:** LPS 3<sup>®</sup>  
**UPS M-5100-2780-B:** LPS 2<sup>®</sup> • Procyon



## AUTOMOTIVE

**Chrysler Corporation:** LPS 1<sup>®</sup> • LPS 2<sup>®</sup> • LPS 3<sup>®</sup> • NoFlash<sup>®</sup>  
**Ford Motor Co.:** Belt Dressing • CFC Free • ChainMate<sup>®</sup> • Cold Galvanize • Dry Film PTFE Lubricant • Electro 140<sup>°</sup> • Electro Contact Cleaner • Force 842<sup>®</sup> • Heavy Duty Silicone • LPS 1<sup>®</sup> • LPS 2<sup>®</sup> • LPS 3<sup>®</sup> • Magnum • NoFlash<sup>®</sup> • NoFlash<sup>®</sup> NU • Precision Clean • PreSolve<sup>®</sup> • Strong Steel Stick • Tapmatic<sup>®</sup> AquaCut • Tapmatic<sup>®</sup> Dual Action #2 • Tapmatic<sup>®</sup> Edge Crème • Tapmatic<sup>®</sup> Natural • TriFree • White Lithium • Workplace Hand Towels  
**General Motors Co.:** Belt Dressing • CFC Free • ChainMate<sup>®</sup> • Cold Galvanize • Copper Anti-Seize • Electro 140<sup>°</sup> • Force 842<sup>®</sup> • Heavy-Duty Silicone • LST • Magnum • NoFlash<sup>®</sup> • Precision Clean • PreSolve<sup>®</sup> • PSC • Tapmatic<sup>®</sup> AquaCut • Tapmatic<sup>®</sup> Edge Crème • Tapmatic<sup>®</sup> Gold • Tapmatic<sup>®</sup> Natural • White Lithium  
**Honda Corp.:** A-151 • CFC Free • F-104<sup>®</sup> • LPS 1<sup>®</sup> • LPS 2<sup>®</sup> • LPS 3<sup>®</sup> • NoFlash<sup>®</sup> • NoFlash<sup>®</sup> NU • Precision Clean • PreSolve<sup>®</sup> • ZeroTri



## FOOD INDUSTRY

**Canadian Food Establishment:** Anti-Spatter • Belt Dressing • Food Grade Chain Lubricant • Food Grade Anti-Seize • Food Grade Machine Oil • Food Grade Silicone Lubricant • Heavy-Duty Silicone • Instant Super Degreaser • LPS 1<sup>®</sup> • LPS 2<sup>®</sup> • LPS 3<sup>®</sup> • T-917M • ThermoPlex<sup>®</sup> FoodLube • White Lithium • ZeroTri  
**NSF International:** A-151 • Belt Dressing • BFX • CFC Free • CFC Free NU • Food Grade Chain Lubricant • Clear Penetrating Grease • EM-Citro • EVR • Food Grade Anti-Seize • Food Grade Machine Oil • Food Grade Silicone Lubricant • G-497M • HDX • Heavy-Duty Silicone • Instant Super Degreaser • KB 88 • LPS 1<sup>®</sup> • LPS 2<sup>®</sup> • LPS 3<sup>®</sup> • LST • Magnum • Micro-X • Micro-X NU • NoFlash<sup>®</sup> • NoFlash<sup>®</sup> NU • Precision Clean • PreSolve<sup>®</sup> • PSC • Revo 66 • T-917M • ThermoPlex<sup>®</sup> Bio Green™ • ThermoPlex<sup>®</sup> CS Moly • ThermoPlex<sup>®</sup> FoodLube • TKX<sup>®</sup> • White Lithium • ZeroTri  
**Tyson:** All Purpose Anti-Seize • CFC Free • Cold Galvanize • Electro 140<sup>°</sup> • Food Grade Silicone Lubricant • HDX • LPS 1<sup>®</sup> • LPS 2<sup>®</sup> • LPS 3<sup>®</sup> • LST • NoFlash<sup>®</sup> • Precision Clean • PreSolve<sup>®</sup> • PSC • Tapmatic<sup>®</sup> #1 Gold • Tapmatic<sup>®</sup> TriCut • ThermoPlex<sup>®</sup> Aqua • ThermoPlex<sup>®</sup> Hi-Temp • ThermoPlex<sup>®</sup> Multi-Purpose • TriFree • White Lithium



## INDUSTRIAL

**Boise Cascade:** Copper Anti-Seize • Dry Film Silicone Lubricant • Force 842<sup>®</sup> • LPS 1<sup>®</sup> • LPS 2<sup>®</sup> • LPS 3<sup>®</sup> • Magnum • NoFlash<sup>®</sup> • PreSolve<sup>®</sup> • Tapmatic<sup>®</sup> #1 Gold • White Lithium  
**Caterpillar:** CFC Free • Electro 140<sup>°</sup> • LPS 1<sup>®</sup> • LPS 3<sup>®</sup> • NoFlash<sup>®</sup> • Precision Clean • PreSolve<sup>®</sup> • Tapmatic<sup>®</sup> AquaCut • ZeroTri  
**City Public Service:** Heavy-Duty Silicone • LPS 2<sup>®</sup> • LPS 3<sup>®</sup> • LST  
**Cummins Engine:** LPS 1<sup>®</sup> • LPS 2<sup>®</sup> • LPS 3<sup>®</sup> • NoFlash<sup>®</sup> • PreSolve<sup>®</sup>  
**Dresser Rand:** LPS 2<sup>®</sup> • LPS 3<sup>®</sup> • NoFlash<sup>®</sup> • NoFlash<sup>®</sup> NU • Precision Clean • PreSolve<sup>®</sup>  
**Hazellton Pump:** LPS 1<sup>®</sup> • Precision Clean • Tapmatic<sup>®</sup> TriCut • ThermoPlex<sup>®</sup> Multi-Purpose  
**Koch Refining Group:** LPS 2<sup>®</sup> • LPS 3<sup>®</sup> • NoFlash<sup>®</sup>  
**Kodak:** CFC Free • Electro 140<sup>°</sup> • Heavy-Duty Silicone • Precision Clean • PreSolve<sup>®</sup> • Tapmatic<sup>®</sup> Natural • ZeroTri  
**New York City Transit:** Heavy-Duty Silicone • LPS 1<sup>®</sup> • LPS 2<sup>®</sup> • LPS 3<sup>®</sup> • Magnum • NoFlash<sup>®</sup> • PreSolve<sup>®</sup>  
**Occidental Chemicals:** LPS 1<sup>®</sup> • LPS 2<sup>®</sup> • LPS 3<sup>®</sup>  
**PlastiPack Packaging:** LPS 1<sup>®</sup> • Tapmatic<sup>®</sup> TriCut • ThermoPlex<sup>®</sup> Multi-Purpose • ZeroTri  
**PPG Glass Mfg.:** ChainMate<sup>®</sup> • LPS 3<sup>®</sup> • Magnum • NoFlash<sup>®</sup> • Precision Clean • Tapmatic<sup>®</sup> Natural  
**Shell Oil:** Cold Galvanize • Electro Contact Cleaner • LPS 1<sup>®</sup> • LPS 2<sup>®</sup>  
**Tyco Electronics:** CFC Free • LPS 1<sup>®</sup> • LPS 2<sup>®</sup> • NoFlash<sup>®</sup> • Precision Clean  
**Universal-Leaf:** ThermoPlex<sup>®</sup> Multi-Purpose • Workplace Hand Towels  
**Whirlpool:** Belt Dressing • ChainMate<sup>®</sup>  
**Xerox:** A-151 • PreSolve<sup>®</sup>



## MANUFACTURING

**Timken Steel:** LPS 3<sup>®</sup> • LST Penetrant • NoFlash<sup>®</sup> • NoFlash<sup>®</sup> NU • Precision Clean • PreSolve<sup>®</sup> • QB Duster • Red & Redi • Tapmatic<sup>®</sup> #1 Gold • ThermoPlex<sup>®</sup> Aqua • ThermoPlex<sup>®</sup> Hi-Load • ThermoPlex<sup>®</sup> Hi-Temp • Workplace Hand Towels • ZeroTri  
**Minntac - US Steel:** ChainMate<sup>®</sup> • Copper Anti-Seize • Dry Film Silicone Lubricant • Force 842<sup>®</sup> • LPS 1<sup>®</sup> • LPS 2<sup>®</sup> • LPS 3<sup>®</sup> • LST • PreSolve<sup>®</sup> • PSC • Tapmatic<sup>®</sup> #1 Gold • TKX<sup>®</sup> • TriFree  
**Inland Steel:** CFC Free • Cold Galvanize • Electro Contact Cleaner • LPS 1<sup>®</sup> • LPS 2<sup>®</sup> • LPS 3<sup>®</sup> • NoFlash<sup>®</sup> • Precision Clean • PreSolve<sup>®</sup> • PSC Cleaner • QB Duster • Strong Steel Stick • Tapmatic<sup>®</sup> #1 Gold  
**Kimberly-Clark:** Electro Contact Cleaner • Heavy Duty Silicone • LPS 2<sup>®</sup> • LPS 3<sup>®</sup> • Magnum • Strong Steel Stick • Tapmatic<sup>®</sup> #1 Gold • Tapmatic<sup>®</sup> Natural • Cold Galvanize • Instant Super Degreaser • Electro 140<sup>°</sup> • PreSolve<sup>®</sup> • Heavy-Duty Silicone • Dry Film Silicone Lubricant • Food Grade Silicone Lubricant • Belt Dressing • ChainMate<sup>®</sup> • Precision Clean • CFC Free • NoFlash<sup>®</sup> • ZeroTri • TriFree • NoFlash<sup>®</sup> NU • Procyon • A-151 • PSC • LPS 1<sup>®</sup> • QB Duster



## MILITARY

**A-A-50493 Class B Types I and II:** LST • KB 88  
**MIL-C-23411A:** LPS 1<sup>®</sup> • LPS 2<sup>®</sup>  
**MIL-C-81309D Type III:** LPS 2<sup>®</sup>  
**MIL-C-83933A:** LPS 3<sup>®</sup>  
**MIL-L-46147A Type II:** Force 842<sup>®</sup>  
**MIL-P-21035, Amendment 1:** Cold Galvanize  
**MIL-PRF-16173E Grade 2 Class 1:** LPS 3<sup>®</sup>  
**MIL-PRF-16173E Grade 3 Class 1:** LPS 2<sup>®</sup>  
**MIL-PRF-29608:** CFC Free • CFC Free NU  
**MIL-PRF-29608A Type C:** Electro Contact Cleaner  
**MIL-PRF-680B Type II:** PF<sup>®</sup>-141 IG  
**MIL-PRF-680B Type IV:** PF<sup>®</sup> Solvent  
**MIL-PRF-907E:** All Purpose Anti-Seize • Copper Anti-Seize • Nickel Anti-Seize  
**VV-P-216C Type I:** LST



## UTILITIES

**Central Power & Light:** ChainMate<sup>®</sup> • Force 842<sup>®</sup> • Heavy-Duty Silicone  
**Halliburton:** LPS 2<sup>®</sup> • LPS 3<sup>®</sup> Precision Clean • Tapmatic<sup>®</sup> #1 Gold • ZeroTri  
**Tampa Electric Co.:** Anti-Spatter • ChainMate<sup>®</sup> • Copper Anti-Seize • Electro 140<sup>°</sup> • Force 842<sup>®</sup> • LPS 1<sup>®</sup> • LPS 3<sup>®</sup> • LST • NoFlash<sup>®</sup> • Precision Clean • PreSolve<sup>®</sup> • TriFree

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02728	Precision Clean (RTU)	14	06616	Micro-X NU	25	C30216	LPS 2®	7
02755	Precision Clean	14	06716	Clear Penetrating Grease	31	C30316	LPS 3®	34
02765	Precision Clean (RTU)	14	06801	SA-X™	18			



## THE RIGHT CHOICE FOR OVER 50 YEARS

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