



**LEADERSHIP  
PERFORMANCE  
SUSTAINABILITY**



**AEROSPACE & AVIATION**



**MILITARY & AUTOMOTIVE**



**MANUFACTURING & FOOD**



**UTILITY & INDUSTRIAL**

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## iS (eyes) - Identification System











### Packaging Icons

	DETEX - Contains metal detectable plastic components (coming soon)
	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 ≤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 2 (National Lubricating Grease Institute) standards



Fast Evaporating Product



Product leaves no residue after use



Product has no odor



Product has very little odor

### iS (eyes) color codes

**Lubricants/Penetrants**

**Cleaners and Degreasers**

**Electrical Cleaners**

**Greases**

**Corrosion Inhibitors**

**Cutting Fluids**

**Specialty MRO Products**



# 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!

This form is available at [www.lpslabs.com](http://www.lpslabs.com) for download, allowing users to complete, save and email for a quicker response.

Phone: (770) 243-8800 • Fax: (770) 243-8899  
WEBSITE: [WWW.LPSLABS.COM](http://WWW.LPSLABS.COM)

# 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 D1133. 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.

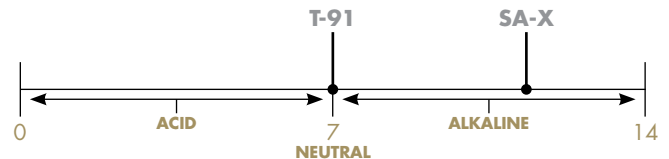
**MOLYBDENUM DISULFIDE:** An inorganic compound with the formula MoS<sub>2</sub>. This black crystalline sulfide of molybdenum occurs as the mineral molybdenite. In its appearance and feel, molybdenum disulfide is similar to graphite. It is widely used as a solid lubricant because of its low friction 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	Consistency Comments
000	445-475	Semifluid (pourable)
00	400-430	
0	355-385	
1	310-340	Slightly soft grease
2	265-295	Most common grease grade
3	220-250	Stiff grease
4	175-205	
5	130-160	Hard grease
6*	85-115	Very hard. "Brick Grease"

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

**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 also known as Teflon®.

**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.

Teflon® is a registered trademark of DuPont.



# SELECTED CERTIFICATIONS & APPROVALS



## AEROSPACE & AVIATION

**A-A-50493 Type I:** LST  
**Airbus ABR 9-0140 Type I:** F-104°  
**Airbus TN A.007.10138 Type I Grade 2:** LPS 3  
**AMS 1525B:** CFC Free • PreSolve®  
**AMS 1526A:** Precision Clean  
**AMS 1526B:** PF® Solvent • PF® 141 IG • PF® HP  
**AMS 1550B:** Precision Clean  
**AMS 1755B:** PF® Solvent • PF® 141 IG • PF® HP  
**ASTM F-519, Type 1C:** Precision Clean • CFC Free  
**ASTM A-780:** Cold Galvanize • BrightCoat Cold Galvanize  
**ASTM F-945:** A-151 • LPS 3® • LST • PF® Solvent • PF® HP  
**Boeing BAC 5008:** #1 Gold  
**Boeing BMS-3-23G Type 2:** HardCoat • LPS 3®  
**Boeing BMS-3-29:** Procyon  
**Boeing D6-17487 Rev. P:** A-151 • F-104° • Instant Super Degreaser • PF® Solvent • PF® 141 IG • PF® HP • Precision Clean  
**Bombardier (Canadair) CMS 565-06 Type I:** HardCoat  
**Bombardier (Canadair) CMS 565-06 Type 2:** Procyon  
**Bombardier (Canadair) CMS 570-01:** Electro 140°  
**Canadian Airlines Materials Manual Section 11-5:** Procyon  
**Comair:** LPS 1® • LPS 2® • LPS 3® • NoFlash® • PreSolve® • ThermaPlex® FoodLube • ThermaPlex® Multi-Purpose  
**DeHavilland DHMS C4.12 Type I:** LPS 3®  
**DeHavilland PPS ACN 16.01:** Procyon  
**Delta Airlines:** HardCoat • LPS 1® • NoFlash® • PreSolve® • Procyon • Tapmatic® Edge Crème  
**Embraer C.P.M.-120/1181 Type A1:** LPS 3®  
**Embraer C.P.M.-120/1181 Type A2:** Procyon  
**Federal Express SRM 51-10-2:** Procyon • LPS 3®  
**Gulfstream GAC115AD:** Procyon  
**Hamilton Standard O & R Manual:** F-104° • PreSolve® • ZeroTri  
**Learjet LES 1239:** NoFlash® • Electro 140° • A-151 • F-104°  
**Learjet M3735-01-98-0042:** Dry Film PTFE  
**Lockheed Martin EPSN G34.031:** LPS 1®  
**Lockheed Martin EPSN G39.04:** LPS 2®  
**Lockheed Martin EPSN G39.2004:** LPS 3®  
**Lockheed Martin Heavy Duty CPC 2a:** Procyon  
**Lockheed Martin Heavy Duty CPC 3a:** HardCoat  
**McDonnell Douglas CSD #1:** Precision Clean • Electro 140° • NoFlash® • CFC Free • PreSolve® • A-151 • PF Solvent • PF® 141 IG • PF® HP  
**McDonnell Douglas DMS 2150:** LPS 3®  
**Pratt & Whitney SPOP 427:** LST  
**Pratt & Whitney PWA 36604:** LPS 3®  
**Pratt & Whitney Canada CPMC 79255 Rev. C:** LPS 1® • LPS 2®  
**Rolls Royce Aircraft Engines 340:** LPS 1®  
**SAAB 340:** LPS 3®  
**UPS M-5100-2780-B:** LPS 2® • Procyon  
**VV-P-216C Type I:** LST

**Tyson:** All Purpose Anti-Seize • CFC Free • Cold Galvanize • Electro 140° • Food Grade Silicone • HDX • LPS 1® • LPS 2® • LPS 3® • LST • NoFlash® • Precision Clean • PreSolve® • PSC • Tapmatic® #1 Gold • Tapmatic® Dual Action #1 • Tapmatic® TriCut • ThermaPlex Aqua • ThermaPlex® Hi-Temp • ThermaPlex® Multi-Purpose • TriFree • White Lithium



## INDUSTRIAL

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



## MANUFACTURING

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



## MILITARY

**MIL-C-16173D Grade 3:** LPS 2®  
**MIL-C-23411A:** LPS 1®  
**MIL-C-81309D Type III:** LPS 2®  
**MIL-I-25135E:** PF® Solvent  
**MIL-L-46147A Type II:** Force 842°  
**MIL-P-21035, Amendment 1:** Cold Galvanize  
**MIL-PRF-16173 Grade 2:** LPS 3®  
**MIL-PRF-29608:** CFC Free  
**MIL-PRF-680 Type II:** PF® 141 IG  
**MIL-PRF-680 Type IV:** PF® Solvent  
**MIL-PRF-907E:** All-Purpose Anti-Seize • Nickel Anti-Seize



## UTILITIES

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



## AUTOMOTIVE

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














## FOOD INDUSTRY

**Canadian Food Establishment:** Anti-Spatter • Belt Dressing • Chain Lubricant Food Grade • Food Grade Anti-Seize • Food Grade Machine Oil • Food Grade Silicone • Heavy-Duty Silicone • Instant Super Degreaser • LPS 1® • LPS 2® • LPS 3® • T-91 • ThermaPlex® FoodLube • White Lithium • ZeroTri  
**NSF International:** A-151 • Belt Dressing • BFX • CFC Free • CFC Free NU • Chain Lubricant Food Grade • Clear Penetrating Grease • EM-Citro • EVR • Food Grade Anti-Seize • Food Grade Machine Oil • Food Grade Silicone • G-49™ • HDX • Heavy-Duty Silicone • Instant Super Degreaser • KB 88 • LPS 1® • LPS 2® • LPS 3® • LST • Magnum • Micro-X • Micro-X NU • NoFlash® • NoFlash® NU • Precision Clean • PreSolve® • PSC • Revo 66 • T-91 • ThermaPlex Bio-Green • ThermaPlex® CS Moly • ThermaPlex® FoodLube • TKX® • White Lithium • ZeroTri



# LUBRICANTS/PENETRANTS

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

\*FOOD GRADE



## 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)
- 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  
Rolls Royce Aircraft Engines 340

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)

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:

Comair  
Lockheed Martin EPSN G39.04  
Pratt & Whitney Canada CPMC 79255 Rev. C  
UPS M-5100-2780-B  
MIL-C-16173D Grade 3 Class 1, para 3.3, 3.4, 3.7-3.11  
MIL-C-81309D Type III, para 3.4-3.5

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.
12 wt. oz./340 g/370 mL	02616

### MEETS OR EXCEEDS THIS SPEC:

Learjet 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



## FOOD GRADE MACHINE OIL



- NSF® Certified: H1 Registration # 129000 (Aerosol)
- 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



## CHAIN LUBRICANT FOOD GRADE



- Excellent for applications involving incidental food contact on food processing equipment
- Foaming action provides extra penetration and lubrication
- Oily, wet film extends chain life
- High flash point 405°F (207°C)
- NSF® Certified: H1 Registration # 132899 (Aerosol)

**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



## 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



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

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



### 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.
12 wt. oz./340 g/373 mL	01616



### DRY FILM SILICONE

### FOOD GRADE SILICONE LUBRICANT



- Meets FDA regulation for incidental food contact
- NSF® Certified: H1 Registration # 113815 (Aerosol)
- 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



# ANTI-SEIZES

**NEW**



## FOOD GRADE ANTI-SEIZE

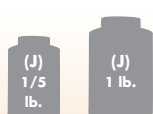


- NSF® Certified: H1 Registration #143035
- Protects against seizure, heat-freeze, galling, rust, and corrosion
- Great for food processing and food handling applications
- Service rating: -65°F (-54°C) to 1800°F (982°C)
- Non-staining
- Lowers friction; reduces wrench torque
- Contains no metals
- Not affected by contraction, expansion, or vibration
- Odorless and 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 THESE SPECS:

MIL-PRF-907E  
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.
11 wt. oz./312 g/379 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



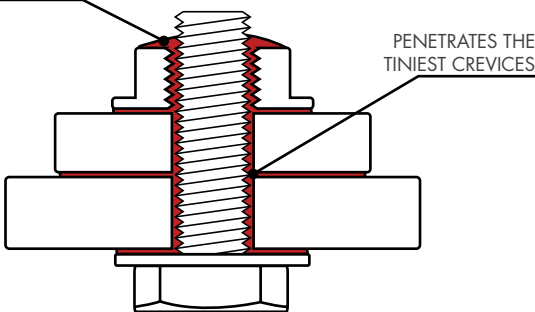
- Specially formulated with low surface tension for fast penetrating action
- Attacks rust and corrosion to free frozen parts
- Powerful foaming action provides complete surface coverage
- Flash point of 175°F (79°C)
- NSF® Certified: H2 Registration # 059851 (Aerosol); # 059823 (Bulk)

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:

VV-P-216C Type 1  
A-A-50493 Type 1

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.

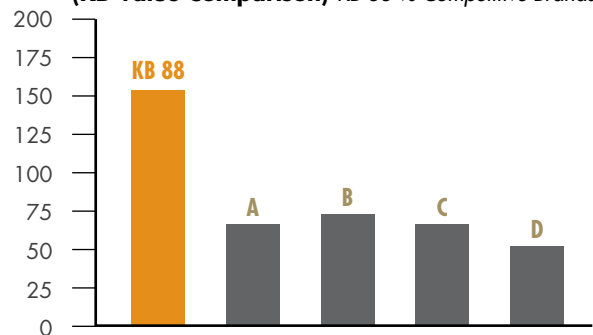
## KB 88 THE ULTIMATE PENETRANT



- 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

(KB Value Comparison) KB 88 vs Competitive Brands



**KB 88 HAS A HIGHER KB VALUE  
THAN MOST COMPETITIVE PRODUCTS.**

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).



# TECHNICAL PROPERTIES: LUBRICANTS & PENETRANTS

FLASH POINT RATING

WET FILM LUBRICANTS									
CHAINMATE®	1	2	3	4	5	6	7	8	9
LPS 2®	1	2	3	4	5	6	7	8	9
KB 88	1	2	3	4	5	6	7	8	9
MAGNUM	1	2	3	4	5	6	7	8	9
TKX®	1	2	3	4	5	6	7	8	9
DRY FILM LUBRICANTS									
DRY FILM PTFE	1	2	3	4	5	6	7	8	9
DRY FILM SILICONE	1	2	3	4	5	6	7	8	9
FORCE 842®	1	2	3	4	5	6	7	8	9
LPS 1®	1	2	3	4	5	6	7	8	9
LST	1	2	3	4	5	6	7	8	9
FOOD GRADE									
CHAIN LUBRICANT	1	2	3	4	5	6	7	8	9
FG* MACHINE OIL	1	2	3	4	5	6	7	8	9
FG* SILICONE	1	2	3	4	5	6	7	8	9
HD** SILICONE	1	2	3	4	5	6	7	8	9
TEMP RANGE <EXTR. FLAM NON-FLAM>									
	0	5	10	15	20	25	30	35	40


\*Food Grade \*\*Heavy-Duty

LUBRICANT LONGEVITY

WET FILM LUBRICANTS									
CHAINMATE®	1	2	3	4	5	6	7	8	9
LPS 2®	1	2	3	4	5	6	7	8	9
KB 88	1	2	3	4	5	6	7	8	9
MAGNUM	1	2	3	4	5	6	7	8	9
TKX®	1	2	3	4	5	6	7	8	9
DRY FILM LUBRICANTS									
DRY FILM PTFE	1	2	3	4	5	6	7	8	9
DRY FILM SILICONE	1	2	3	4	5	6	7	8	9
FORCE 842®	1	2	3	4	5	6	7	8	9
LPS 1®	1	2	3	4	5	6	7	8	9
LST	1	2	3	4	5	6	7	8	9
FOOD GRADE									
CHAIN LUBRICANT	1	2	3	4	5	6	7	8	9
FG* MACHINE OIL	1	2	3	4	5	6	7	8	9
FG* SILICONE	1	2	3	4	5	6	7	8	9
HD** SILICONE	1	2	3	4	5	6	7	8	9
MONTHS									
	2	4	6	8	10	12	14	16	18

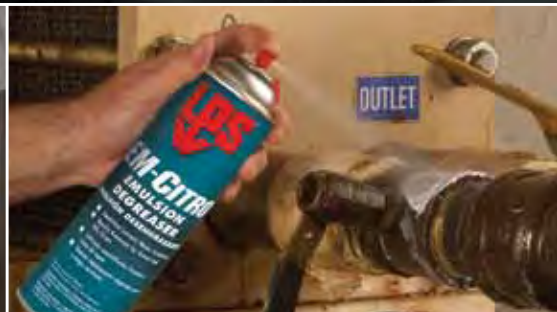
CORROSION PROTECTION LONGEVITY (INDOORS)

WET FILM LUBRICANTS									
CHAINMATE®	1	2	3	4	5	6	7	8	9
LPS 2®	1	2	3	4	5	6	7	8	9
KB 88	1	2	3	4	5	6	7	8	9
MAGNUM	1	2	3	4	5	6	7	8	9
TKX®	1	2	3	4	5	6	7	8	9
DRY FILM LUBRICANTS									
DRY FILM PTFE	1	2	3	4	5	6	7	8	9
DRY FILM SILICONE	1	2	3	4	5	6	7	8	9
FORCE 842®	1	2	3	4	5	6	7	8	9
LPS 1®	1	2	3	4	5	6	7	8	9
LST	1	2	3	4	5	6	7	8	9
FOOD GRADE									
CHAIN LUBRICANT	1	2	3	4	5	6	7	8	9
FG* MACHINE OIL	1	2	3	4	5	6	7	8	9
FG* SILICONE	1	2	3	4	5	6	7	8	9
HD** SILICONE	1	2	3	4	5	6	7	8	9
MONTHS									
	2	4	6	8	10	12	14	16	18

		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®	●	●	H2	●		33 kV				●
	KB 88	●	●	H2			NE*				●
	MAGNUM	●	●	H2			15 kV			●	●
	TKX®	●	●	H2			32 kV				●
DRY FILM LUBRICANTS	DRY FILM PTFE						NE*			●	
	DRY FILM SILICONE	●	●			●	NE*		●		
	FORCE 842®						NE*	●			
	LPS 1®	●	●	H2	●		32 kV				●
	LST	●	●	H2			NE*				●
FOOD GRADE	CHAIN LUBRICANT			H1	●		NE*				●
	FOOD GRADE MACHINE OIL			H1	●		NE*				●
	FOOD GRADE SILICONE LUBRICANT			H1	●		NE*		●		
	HEAVY-DUTY SILICONE	●	●	H1	●		NE*		●		

\*NE=Not Established












		NSF® CERTIFIED	TEMPERATURE RANGE										TYPE OF ANTI-SEIZE			
			-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
ANTI-SEIZES	ALL-PURPOSE												●			●
	COPPER												●			
	FOOD GRADE	H1											●			
	NICKEL												●	●		



# 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

Part No.	Net Contents
28 fl. oz. (828 mL) trigger	06328
1 gal. (3.78 L)	06301
5 gal. (18.93 L)	06305
55 gal. (208 L)	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	Floors: Light to Heavy Duty Cleaning/Degreasing
Undiluted to 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	Part No.
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

### MEETS OR EXCEEDS THESE SPECS:

AMS 1526A  
AMS 1550B  
ASTM F-519, Type 1C  
Boeing D6-17487 Rev.H  
McDonnell Douglas CSD #1



**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	Part No.
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



# 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)

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

NSN 6850-01-431-5779: (15 wt. oz.)



### 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

Part No.	Net Contents
	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. P  
LearJet 1239  
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:

AMS 1525B  
McDonnell Douglas CSD #1

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



### A-151 SOLVENT/DEGREASER

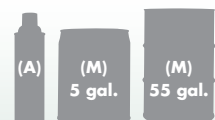


- High flash point  $\geq 158^\circ\text{F}$  (70°C)
- VOC exempt per EPA and CARB guidelines
- Removes oil, grease and other contaminants
- Ideal for parts washers, dip tanks, and ultrasonic cleaners
- Controlled evaporation
- NSF® Certified: C1 Registration # 059811 (Aerosol); # 059812 (Bulk)

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:

Boeing D6-17487 Rev. P  
Learjet LES 1239  
McDonnell Douglas CSD #1  
Conforms to SCAQMD Rule 1124





# CLEANERS & DEGREASERS



## INSTANT SUPER DEGREASER



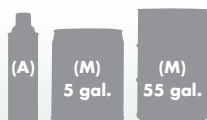
- Excellent degreaser for removing greases and oils
- Safe on all metals
- NSF® Certified: C1 Registration # 129029 (Aerosol); # 129028 (Bulk)

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 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:

ARP 1755A	ASTM F-519
AMS-1526B	ASTM F-1111
ASTM D-3257	ASTM F-1105
ASTM D-1693	ASTM F-945
ASTM F-502	Boeing D6-17487, Rev J
ASTM F-485	McDonnell Douglas CSD #1
ASTM F-1110	MIL-I-25135E
ASTM F-484	MIL-PRF-680 Type IV
ASTM F-483	



## 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:

ARP 1755A	ASTM F-519
ASTM F-502	ASTM F-1111
ASTM F-485	ASTM F-1105
ASTM F-1110	ASTM F-945
ASTM F-484	Boeing D6-17487 Rev. P
ASTM F-483	

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: MIL-PRF-680 Type II

### APPLICATIONS:

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

NSN 6850-01-423-1730 (55 gal.)

NSN 6850-01-423-2711 (55 gal.)

NSN 6150-00-943-6880 (55 gal.)



# 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

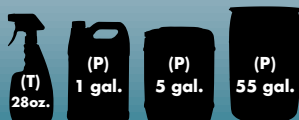
28 fl. oz. (828 mL) trigger  
1 gal. (3.78 L)  
5 gal. (18.93 L)  
55 gal. (208 L)

### 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

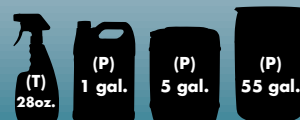
28 fl. oz. (828 mL) trigger  
1 gal. (3.78 L)  
5 gal. (18.93 L)  
55 gal. (208 L)

### 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



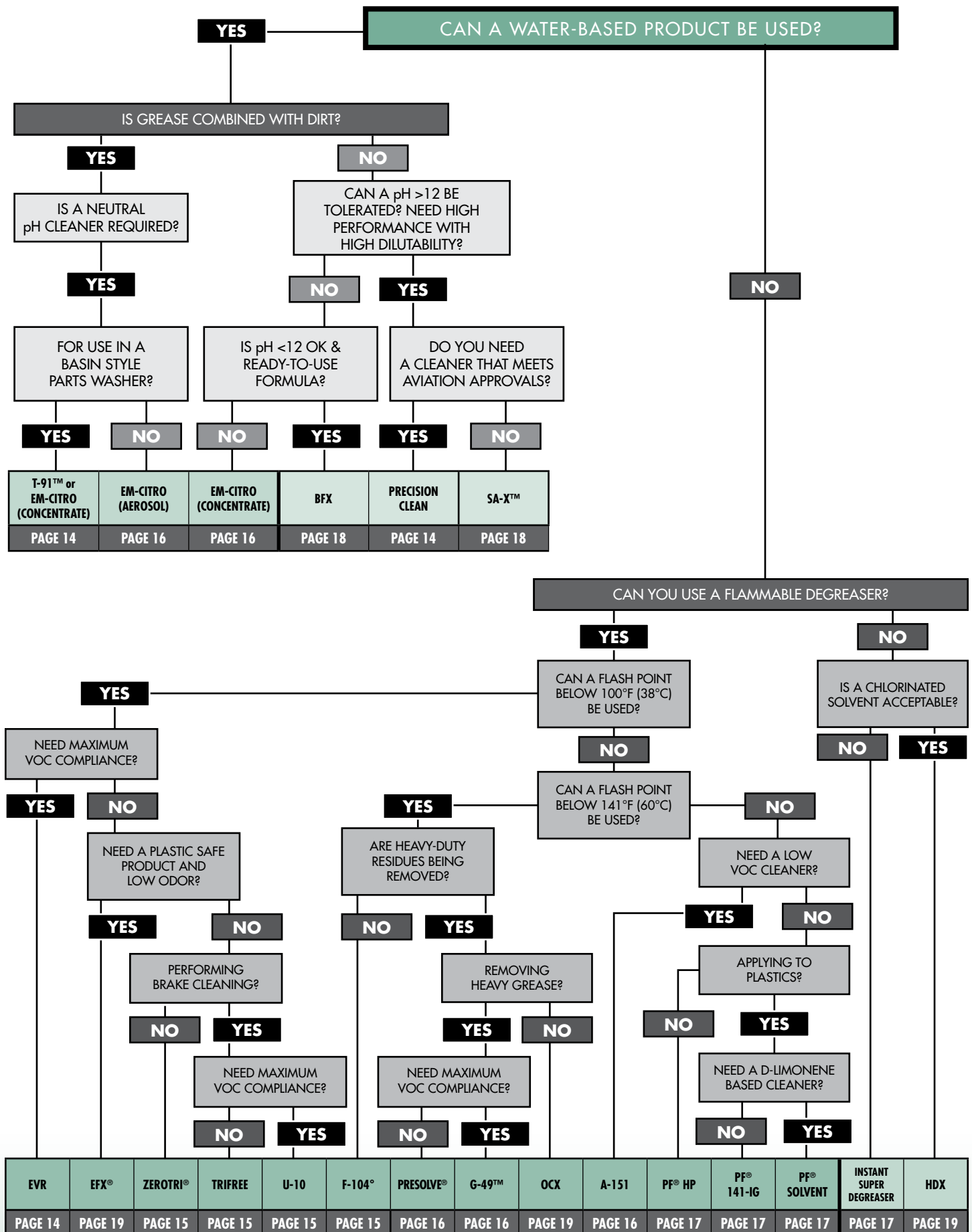
- High performance industrial degreaser which cleans on contact
- Fast acting on grease, oil, and sludge
- Natural based
- Flash point above 100°F (38°C)
- Safe on all metals and most plastics

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





# DECISION TREE: CLEANERS & DEGREASERS
















# ELECTRICAL CLEANERS



## AVAILABLE SIZES

									
	AEROSOL	TRIGGER 20 OZ.	TRIGGER 28 OZ.	1 GAL.		5 GAL.		55 GAL.	
				PLASTIC	METAL	PLASTIC	METAL	PLASTIC	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	●								





AEROSOL

## CFC FREE ELECTRO CONTACT CLEANER



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

Net Contents	Part No.
11 wt. oz./312 g/465 mL	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  
MIL-PRF-29608  
McDonnell Douglas CSD #1

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 NVC CONTACT CLEANER



- Ideal for electronic and fine parts
- Cleans 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



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:

Bombardier (Canadair) CMS 570-01  
Learjet LES 1239  
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  
McDonnell Douglas CSD #1

\*Not available in Canada



## 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** 15 wt. oz./425 g/335 mL  
**Part No.** C04015

### MEETS OR EXCEEDS THESE SPECS:

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



## 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 electrical/electronic fine parts
- Removes light greases, oils, dirt, and organic soils

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



## 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  
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

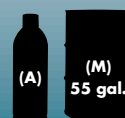


- Quick penetration
- Low odor
- Does not contain HCFCs
- No rinsing
- NSF® Certified: K2 registration #059853 (Aerosol); #059852 (Bulk)

**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 electrical/electronic fine parts
- Removes light greases, oils, dirt, and organic soils

**Net Contents**      **Part No.**  
12 wt. oz./340g/266mL    00816\*  
\*Not available in Canada








# TECHNICAL PROPERTIES: ELECTRICAL CLEANERS

## DI-ELECTRIC STRENGTH

CFC FREE NU	NOT APPLICABLE									
CFC FREE	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	NOT ESTABLISHED									
kV (kilovolts)	5	10	15	20	25	30	35	40	45	50

## KB VALUE






CFC FREE NU	26									
CFC FREE	31									
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 NU	●	●	K2		●			●	●
CFC FREE			K2	●	●			●	●
ELECTRA-X	●	●				●	●	●	●
ELECTRO-140°					●		●		●
ELECTRO CONTACT CLEANER	●	●			●	●	●	●	●
MICRO-X			K2		●			●	●
MICRO-X NU	●	●	K2		●			●	●
NOFLASH®	●	●	K2			●	●	●	●
NOFLASH® NU	●	●	K2	●		●	●	●	●
PSC	●		K2		●	●	●	●	●
QB	●	●			●	●	●	●	●
REVO 66	●	●	K2			●	●	●	●
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		●	●	●	●
<b>AEROSOLS</b>					
CLEAR PENETRATING GREASE	●				
RED & REDI	●				
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)**

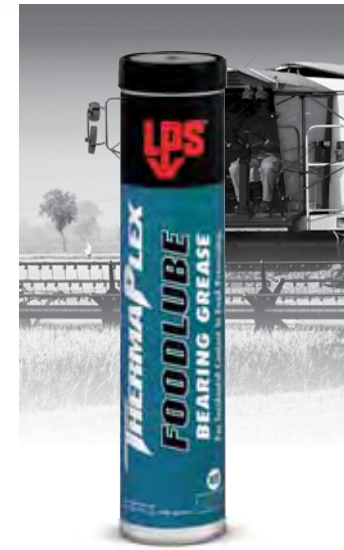
@ 175°F (77°C): 3.30%



(C)

(P)

35 lbs.



## THERMAPLEX® FOODLUBE BEARING GREASE



- 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
- NSF® Certified: H1 Registration # 117848

### 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:**

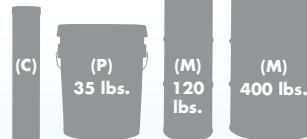
-4°F (-20°C) to 300°F (149°C)

**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)



(C)

(P)

35 lbs.

(M)

120 lbs.

(M)

400 lbs.

**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:**

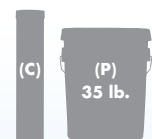
0°F to 425°F (-18°C to 218°C)

**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)



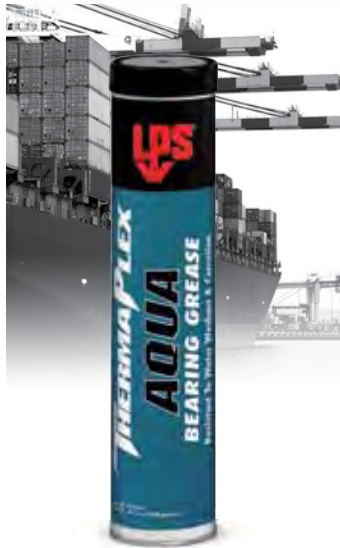
(C)

(P)

35 lbs.

# 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**

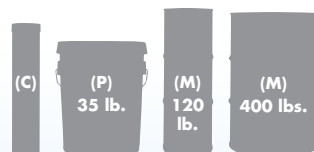
- Excellent load carrying ability
- Withstands shock loading
- Reduces wear from vibration
- Contains 3% moly
- Good corrosion resistance
- Excellent anti-wear properties
- Wide operating temperature range
- Reduces maintenance costs

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**

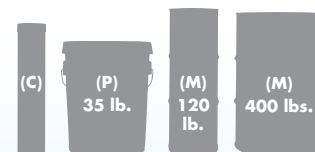
- Reduces risk of bearing failure at high temperatures
- Excellent high temperature performance
- Resists carbonization at high temperatures
- Extends relubrication intervals
- Very high dropping point
- Ensures optimal production rates
- Excellent vibration resistance
- Reduces grease consumption

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



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

**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)



Scan QR Code to view demo video of CPG 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

**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

**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°

## DROPPING POINT

THERMAPLEX® BIO GREEN™												450°F (232°C)			
THERMAPLEX® CS MOLY														570°F (300°C)	
THERMAPLEX® MULTI-PURPOSE												429°F (220°C)			
THERMAPLEX® FOODLUBE													500°F (260°C)		
THERMAPLEX® AQUA													500°F (260°C)		
THERMAPLEX® HI-TEMP														536°F (280°C)	
THERMAPLEX® HI-LOAD												429°F (220°C)			
<b>AEROSOLS</b>															
CLEAR PENETRATING GREASE*													500°F (260°C)		
RED & REDI														550°F (288°C)	
WHITE LITHIUM												350°F (177°C)			
	°F	50°	100°	150°	200°	250°	300°	350°	400°	450°	500°	550°	600°		
	°C	10°	38°	65°	93°	121°	149°	177°	204°	232°	260°	288°	316°		

## TIMKEN "OK" LOAD


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

\*Clear Penetrating Grease

## 4-BALL WELD LOAD

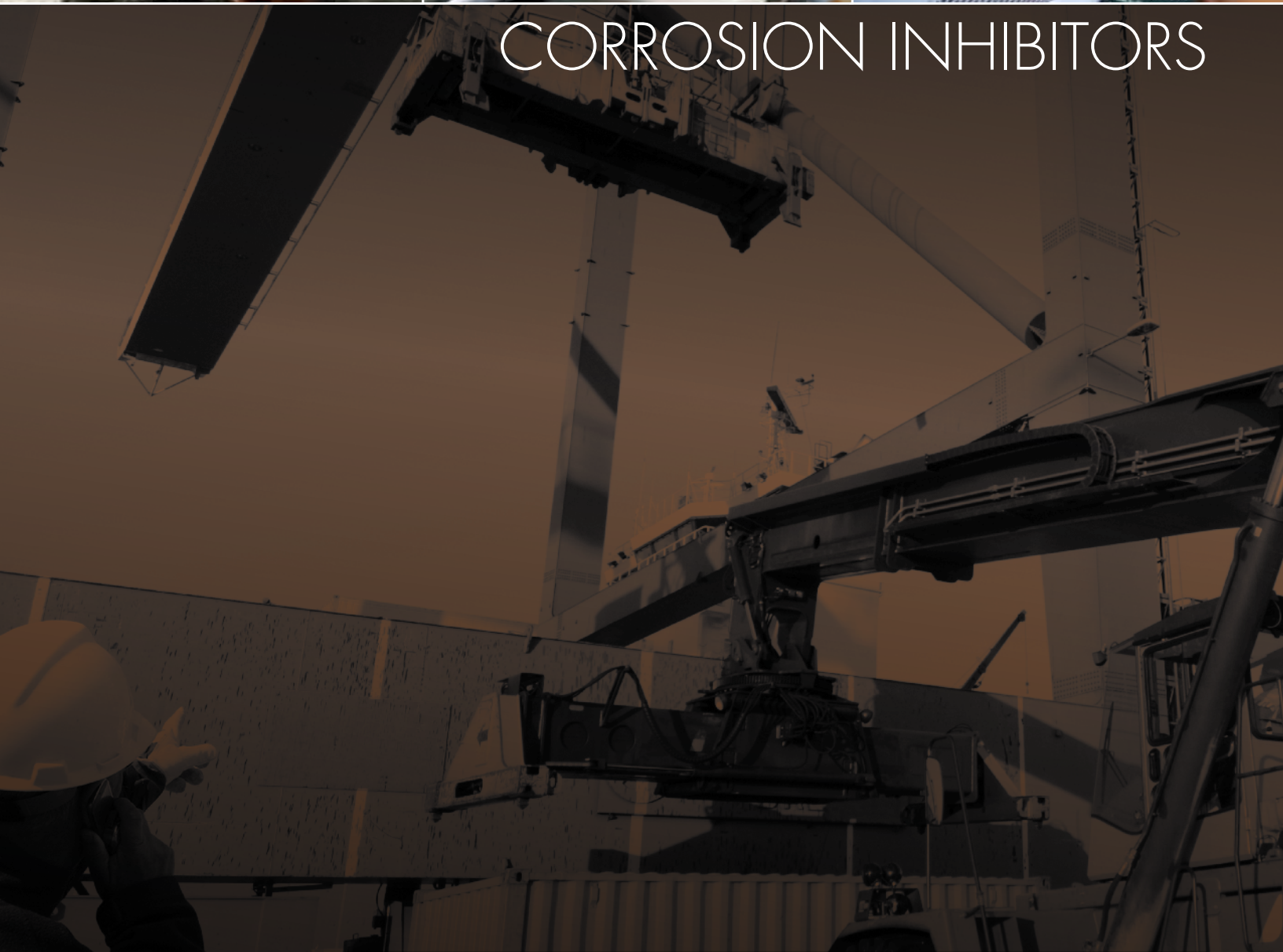
BIO-GREEN™				500											
CS MOLY					600										
MULTI-PURPOSE					600										
FOODLUBE				400											
AQUA					315										
HI-TEMP					400										
HI-LOAD						600									
<b>AEROSOLS</b>															
CPG*	NOT ESTABLISHED														
RED & REDI				250											
WHITE LITHIUM			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

\*Clear Penetrating Grease









	GREASE COLOR	NSF CERTIFIED		PTFE	NON FLAMMABLE	CONTAINS MOLY	WATER RESISTANT	THICKENER TYPE		
								ALUMINUM COMPLEX	CALCIUM SULFONATE	LITHIUM COMPLEX
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.		5 GAL.		55 GAL.	
			PLASTIC	METAL	PLASTIC	METAL	PLASTIC	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 rubber, fabric, plastics, and paints
- NSF® Certified: H2 Registration # 129027 (Aerosol); # 059849 (Bulk)

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:

#### Qualified to:

Airbus TN A.007.10138 Type I Grade 2

Boeing BMS 3-23G Type II

DMS 2150

Lockheed Martin EPSN G39.2004

#### Conforms to:

Mil-PRF-16173E Grade 2

ASTM F-945

PWA 36604

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 rubber, fabric, plastics, and paints

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

Bombardier CMS 565-06 Type II

DeHavilland F 13 Grade 4

Embraer C.P.M-120/1811 Type A2

Gulfstream GAC115AD

Lockheed Martin Penetrating CPC 2a

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 plastics and paints

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 CMS 565-06 Type I



## 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

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

### MEETS OR EXCEEDS THESE SPECS:

MIL-P-21035, Amendment I

ASTM A-780

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

### MEETS OR EXCEEDS THIS SPEC:

ASTM A-780







# TECHNICAL PROPERTIES: CORROSION INHIBITORS

## PROTECTION LONGEVITY

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

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



# 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

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 LOW  
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



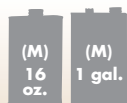
## TAPMATIC® DUAL ACTION PLUS #1 CUTTING FLUID



- Made for hard to machine metals such as stainless steel and titanium
- Cools and lubricates
- Reduces friction and eliminates chip welding
- Lowers temperature through chemically controlled evaporation
- Provides ultra fine finishes and precise tolerances
- Excellent cooling ability
- Evaporates quickly
- Not recommended for aluminum

Net Contents	Part No.
16 fl.oz. (473 mL)	40120
1 gal. (3.78 L)	40130*

\*Not available in Canada



## TAPMATIC® TRICUT CUTTING FLUID



- 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	Part No.
16 fl.oz. (473 mL)	05316
1 gal. (3.78 L)	05328



EXCELLENT FOR BAND  
SAWS



## TAPMATIC® EDGE LUBE CUTTING FLUID



- 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	Part No.
13 oz. (364 g)	43200



DESIGNED FOR  
PIPE-BENDING AND CUTTING



## TAPMATIC® EDGE CREME CUTTING FLUID



- 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	Part No.
10 fl.oz. (296 mL)	43100



# APPLICATION GUIDE: CUTTING FLUIDS

	TAPMATIC® CUTTING FLUIDS							
	#1 GOLD	NATURAL	AQUACUT	TRICUT	DUAL ACTION PLUS #1	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
- Natural Gas Meters
- Air Pipes
- Pneumatic Pipe and Ducts
- Air Tools
- Propane Tanks
- Air Hose
- Polyethylene Cable Sheath
- Compressors
- Refrigeration Equipment
- Fittings and Connectors
- Sleeves & Splice Cases
- Gas Appliances
- Lead Cable Sheath



## FLOOR PATCH



- Repairs holes and cracks in concrete floors, walls, and other surfaces with a tough, durable filler
- Adheres to concrete, bricks, masonry, and metal surfaces
- Bonds securely to new concrete or old concrete
- Compression strength is over two times as high as concrete
- Withstands light traffic after 5 hours & heavy traffic in 8 hours
- Easy to mix and apply
- Excellent resistance to water, oil, and most chemicals
- Covers 16 square feet per 40 pound kit at 1/4" thickness
- Temperature resistance of 150°F (66°C)

Net Contents	Part No.
40 lbs. kit (18 kg)	60943

\*Not available in Canada



# 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

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



## BELT DRESSING



- 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
- NSF® Certified: H1 Registration # 134508

**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



# 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:

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

$$N = 0.003 \times L \times D \text{ (for prelube bags)}$$

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

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

$$N = 0.004 \times L \times D \text{ (for prelube bags)}$$

- Q = Amount of Techlube HD needed in gallons.
- N = The number of bags needed
- 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 Audits
- 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](http://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.

## ORDERS & SHIPMENTS

### ACCURACY & CONDITION

LPS maintains 24 hour processing and shipping of orders in Atlanta with a 99+% fill rate. We have warehouses in Atlanta, Toronto, Singapore and the UK.

## 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.

## 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.

## 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.

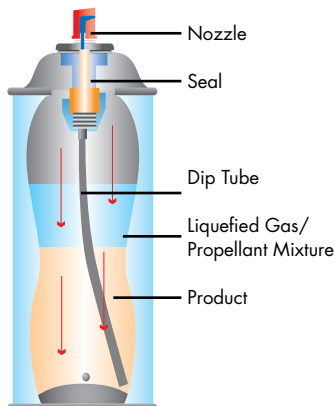
## RECYCLABLE MATERIALS

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

# LPS SELECTION GUIDE FOR FOOD PROCESSING PLANTS

## NSF® CATEGORY CODE

	H1	A1	C1	H2	K1	K2
<b>LUBRICANTS/PENETRANTS</b>						
CHAIN LUBRICANT FOOD GRADE	●					
FOOD GRADE ANTI-SEIZE	●					
FOOD GRADE MACHINE OIL	●					
FOOD GRADE SILICONE	●					
HEAVY-DUTY SILICONE	●					
KB 88				▼		
LPS 1®				▼		
LPS 2®				▼		
LST PENETRANT				▼		
MAGNUM				▼		
TKX®				▼		
<b>CLEANERS &amp; DEGREASERS</b>						
A-151			▼			
BFX			▼			
EM-CITRO			▼			
EVR			▼			
G-49™			▼			
HDX					▼	
INSTANT SUPER DEGREASER			▼			
PRECISION CLEAN			▼			
PRESOLVE®			▼			
T-91		▼				
ZEROTRI®			▼			
<b>ELECTRICAL CLEANERS</b>						
CFC FREE						▼
CFC FREE NU						▼
MICRO-X						▼
MICRO-X NU						▼
NOFLASH®						▼
NOFLASH® NU						▼
PSC						▼
REVO 66						▼
<b>CORROSION INHIBITOR</b>						
LPS 3®				▼		
<b>GREASES</b>						
THERMAPLEX® BIO-GREEN™				▼		
CLEAR PENETRATING GREASE	●					
THERMAPLEX® CS-MOLY				▼		
THERMAPLEX® FOODLUBE	●					
<b>SPECIALTY MRO PRODUCT</b>						
BELT DRESSING	●					

● CLEAR TO USE while food is being processed in manufacturing areas.

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

# GUIDE FOR 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.

### **H1: 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:**

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

## NON-FOOD PROCESSING AREAS

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

### **A1: 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

### **C1: 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
- **BFX** All Purpose Cleaner
- **EM-CITRO** Emulsion Degreaser
- **EVR** Clean Air Solvent Degreaser
- **G-49™** Orange Degreaser Low VOCs
- **INSTANT SUPER DEGREASER**
- **PRECISION CLEAN** Multi-Purpose Cleaner/Degreaser
- **PRESOLVE®** Orange Degreaser
- **ZEROTRI®** Heavy-Duty Degreaser

### **H2: 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
- **LPS 1®** Greaseless Lubricant
- **LPS 2®** Heavy-Duty Lubricant
- **LST** Penetrant
- **MAGNUM** Premium Lubricant with PTFE
- **LPS 3®** Premier Rust Inhibitor
- **THERMAPLEX® BIO GREEN™** Bearing Grease
- **THERMAPLEX® CS MOLY** Bearing Grease
- **TKX®** All-Purpose Lubricant

### **K1: 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

### **K2: 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
- **CFC FREE NU** LVC Contact Cleaner
- **MICRO-X** Fast Evaporating Contact Cleaner
- **NOFLASH®** Electro Contact Cleaner
- **PSC** Plastic Safe Cleaner
- **REVO 66** Contact Cleaner
- **MICRO-X** Fast Evaporating Contact Cleaner
- **NOFLASH® NU** Electro Contact Cleaner



**METAL DETECTABLE PLASTIC COMPONENTS** (PATENT PENDING)



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# YEARS

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