

### www.jetlube.com

The place to go to get MSDS and TDS sheets, new product information, company news and key product information.



Through more than 65 years of research, development, testing and manufacturing, Jet-Lube has developed a broad line of grease products for Industrial, MRO, Marine, Food Grade, and OEM applications: Anti-Seize Compounds, EP Greases, Thread Sealants, Lubricants, Anaerobics, Penetrants and General Purpose Lubes & Cleaners.

Every Jet-Lube product is meticulously developed, manufactured and inspected to the industry's most comprehensive and rigorous quality control standards. Jet-Lube is proud to have been ISO Certified since 1993. With manufacturing plants in Houston, Edmonton and the United Kingdom, Jet-Lube has earned its place as a world-wide leader in the lubrication industry.

Whatever your application, Jet-Lube has the right product to solve your lubrication needs. Through our experienced R&D lab, Jet-Lube has the ability to create customized products for unique conditions, environmental regulations and to meet the toughest application requirements.

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#### Jet-Lube® ECF Environmental Compound Formulas

Since 1949, Jet-Lube has been formulating and testing environmentally acceptable compounds. Today, we offer alternatives that exceed the most stringent mandated performance and environmental requirements for offshore and onshore drilling operations worldwide. Now, Jet-Lube environmentally sensitive greases and lubricants join our thread compounds in meeting Norway's Yellow (SFT) and the United Kingdom and the Netherland's "E" classification

by CEFAS. These classifications are the most rigid environmental requirements to date and are part of the effort to apply "green" standards and practices throughout all industry worldwide. To meet the OSPAR Commission's Harmonized Offshore Chemical Notification Format (HOCNF) directives, compounds are required to be biodegradable, bioaccumulation-potential free and nontoxic to all life forms tested.













### Metal-Free & Extreme-Temperature Thread Compounds

#### **RUN-N-SEAL® ECF™**

A high-pressure sealant alternative for non-premium connections.

#### **SEAL-GUARD™ ECF™**

Specifically formulated for metal-to-threads and high-alloy steel materials.

#### NCS-30<sup>®</sup> ECF<sup>™</sup>

A premium drill string compound with superior adhesion and water resistance.

### Workover, Subsea & Open-Gear Greases & Lubricants

#### JACKING SYSTEM GREASE ECF™

For jacking systems, slides, cantilever-type rigs and any heavily loaded gear equipment.

#### WIRE LINE LUBRICANT ECF™

A new-generation formula to extend and protect your slick braided and electric wireline.

#### ALCO-EP™ ECF™

A long-lasting, highly water-resistant multi purpose grease. Excellent for subsea as well as topside moving components.

> Since 1949, Jet-Lube products have been helping people solve equipment maintenance problems. Jet-Lube is recognized as the world leader in manufacturing lubricants for Oilfield, Water Well, and Industrial MRO customers worldwide. Jet-Lube products are available around the globe through a strategic distribution network; with a combination of factory representatives and warehouses in key locations. Our focus is to produce the industry's highest-quality drill pipe compounds, thread sealants, EP greases, aerosol products, and valve lubricants for demanding applications.

#### **ISO 9001 CERTIFIED**

#### **Premium Copper-Based Drill Collar & Tool Joint Compounds**

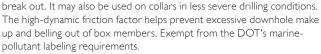
# KOPR-KOTE® Premium Drill Collar & Tool Joint Compound

KOPR-KOTE is widely regarded as the best copper-based drilling compound in the world. It is also one of the few copper compounds to be granted a marine-pollutant exemption by the DOT. KOPR-KOTE is uniquely formulated to prevent excessive circumferential make up and has a very high static friction factor that helps prevent downhole joint make up when excessive drilling torques are encountered. It prevents galling and seizure and allows easy breakout. KOPR-KOTE is recommended for all oilfield threads: drill pipe, collars, tools and jacking systems.

Service Rating: Standard: 0°F (-18°C) to 450°F (232°C), Thermal: 0°F (-18°C) to 700°F (370°C), Arctic: -65°F (-55°C) to 300°F (149°C) NSF H2 Registered

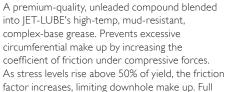
#### JET-LUBE® 21® Double-Duty Tool Joint & Drill Collar Compound

JET-LUBE 21 is a high-quality product designed for less severe applications than KOPR-KOTE. It is formulated to prevent excessive circumferential make up of tool joints and protects against galling and high stress to prolong thread and shoulder life. JET-LUBE 21 is designed for use as a tool joint compound for consistent control of make up and



Service Rating: Standard: 0°F (-18°C) to 450°F (232°C), Thermal: 0°F (-18°C) to 700°F (370°C), Arctic: -65°F (-55°C) to 300°F (149°C)





hydraulic joint efficiency is maintained allowing joint shoulder faces to mate completely without standoff or deformation. Exempt from the DOT's marine-pollutant labeling requirements.

Service Rating: Standard: 0°F (-18°C) to 450°F (232°C), Thermal: 0°F (-18°C) to 700°F (370°C), Arctic: -65°F (-55°C) to 300°F (149°C)

#### JLS® Tool Joint Compound

JLS Tool Joint Compound is economical and contains premium-grade copper flake, amorphous graphite, extreme-pressure additive, rust and corrosion inhibitors and other special-purpose ingredients at lower doses to be used in less severe drilling applications. JLS is recommended for use on tool joints in drilling medium-depth formations. It provides consistent control of make up, break out, galling and seizure.



Service Rating: Standard: 0°F (-18°C) to 450°F (232°C), Thermal: 0°F (-18°C) to 700°F (370°C), Arctic: -65°F (-55°C) to 300°F (149°C)

#### Premium Metal-Free Drill Collar & Tool Joint Compounds

#### NCS-30<sup>®</sup> Tool Joint & Drill Collar Compound

NCS-30 is a premium-quality, nonmetallic compound containing carbon-based fibers and additives and other natural extreme-pressure and anti-wear additives. These are blended into JET-LUBE's high-temp, calcium-complex base grease. This new base grease offers the additional advantage of superior adhesion to wet steel and resistance to water wash-off. Especially effective for invert or high-pH muds.

Service Rating: -65°F (-54°C) to 500°F (260°C) NSF  $\rm H_{\rm 2}$  Registered



This biodegradable, nonmetallic formula meets Norway "Yellow", British and Dutch "E" HOCNF classifications. Extreme-pressure and anti-wear additives control friction and galling. Resists wash-off and sticks to wet pipe. Withstands invert and high-pH muds and is nonconductive for MWD. Excellent for high-chrome or nickel-alloy connections in extreme-temperature service.

Service Rating: -10°F (-23°C) to 500°F (260°C)



#### **Premium Metal-Free Drill Collar & Tool Joint Compounds**

# KOV'R-KOTE® Double-Duty Compound Tool Joint Compound/Sealant

The unique blend of polymers, graphite and friction-reducing additives makes KOV'R-KOTE ideal for drill collars, drill pipe and tubing and can be used for bottom hole assemblies. This metal-free formula was developed to address concerns related to products containing zinc, copper and heavy metals.



While maintaining multifunctional capabilities, KOV'R-KOTE is recommended for use on shouldered and interference threads and is ideal for small and large diameter drill pipe.

KOV'R-KOTE has exceptionally high film strength (1000kgf) which makes this product ideal as a jacking gear grease. KOV'R-KOTE exceeds all performance specs in the API specification 5CT and API Recommended Practice 5A3. KOV'R-KOTE contains additives for rust, corrosion and oxidation protection, while maintaining consistent rig floor make up and excellent resistance to make up downhole.

Service Rating: Standard: 0°F (-18°C) to 450°F (232°C), Thermal: 0°F (-18°C) to 700°F (370°C), Arctic: -65°F (-55°C) to 300°F (149°C) NSF H2 Registered

#### CURÄL™ Work Over/Non-Critical Tool Joint Compound

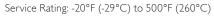
CURÄL is a thread compound developed for non-critical drilling, work over and production applications. Nonmetallic, environmentally acceptable special additives enable CURÄL to also be used for lubricating, sealing and storage of drilling and production equipment. Can be used as an alternative to API-MODIFIED.



Service Rating: Standard: 0°F (-18°C) to 450°F (232°C), Thermal: 0°F (-18°C) to 700°F (370°C), Arctic: -65°F (-55°C) to 300°F (149°C)

### WHITE LIGHTNING™ Drill Collar & Tool Joint Compound

Nonmetallic, PTFE based, light to light medium duty thread compound designed for use on all rotary shouldered connections. Contains additives for protection against rust, corrosion and oxidation. Friction Factor for Drill String (per RP7G) 1.0 for both drill pipe and drill collars.

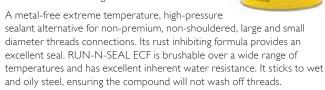




#### **OCTG Running Compounds**

#### RUN-N-SEAL® ECF™ Non-Premium Thread Connection Sealant

Ospar Commission-HOCNF (Harmonized Offshore Chemical Notification Format) • Classification: "Yellow" rating for Norway • "E" for the United Kingdom and Netherlands



Service Rating: 0°F (-18°C) to 450°F (232°C) Friction factor 0.9 Relative to API Modified

# JET-LUBE® SEAL-GUARD™ ECF™ Yellow/"E"-Rated Premium Connection Thread Compound

Ospar Commission-HOCNF (Harmonized Offshore Chemical Notification Format) • Classification: "Yellow" rating for Norway • "E" for the United Kingdom and Netherlands



JET-LUBE SEAL-GUARD ECF has been specifically formulated to meet the performance requirements of proprietary, metal-to-metal seal and high-interference connection designs utilizing today's high-performance materials, which include "super" chrome and high-alloy steels. The smaller particle size distribution may not provide optimum sealability on 8-round and buttress thread forms.

Biodegradable • Metal free • Frictional properties similar to API MODIFIED Service Rating: -20°F (-29°C) to 500°F (260°C)

### RUN-N-SEAL® EXTREME® Running & Storage Compound

Nonmetallic, high-pressure sealant for API connections (buttress and 8-round) and storage compound. Not intended for use on premium connections. Contains graphite and other nonmetallic, inorganic, anti-wear additives blended into a state-of-the-art, high-temperature, rust-inhibiting complex soap-based grease. RUN-N-SEAL EXTREME has been tested for



Service Rating: Standard: 0°F (-18°C) to 450°F (232°C), Thermal: 0°F (-18°C) to 700°F (370°C), Arctic: -65°F (-55°C) to 300°F (149°C) Friction factor 0.9 relative to API-MODIFIED.



### Premium Connection Thread Compound

A new-technology, nonmetallic thread compound design provides optimum galling resistance and frictional properties in the make up of high-chrome,

premium thread designs (metal-to-metal seals).

Service Rating: 20°F (-29°C) to 500°F (260°C) Friction factor 0.9 relative to API-MODIFIED.



### **Z-40<sup>™</sup> • Z-50<sup>™</sup> • Z-60<sup>™</sup>** Zinc Tool Joint

JET-LUBE's "Z-Series" products contain varying percentages of prime-grade metallic zinc dust along with

Compounds



other special additives. They ensure consistent floor make up and are brushable over a wide temperature range. They adhere to all surfaces, resist water wash off and prevent rust and corrosion.

Service Rating: 0°F (-18°C) to 300°F (149°C)

### API-MODIFIED Thread Compound Sealant

API-MODIFIED is a high-pressure thread compound that conforms to and exceeds the requirements of API Bulletin 5A2 and R.P. 5A3. It is formulated with JET-LUBE's unique grease base, which tenaciously adheres to wet or oily surfaces and provides brushability throughout the service

range. API-MODIFIED seals and withstands pressures to 10,000 psi, resists wash-off and will not harden or dry.

Service Rating: 0°F (-18°C) to 300°F (149°C)



### ALCO-EP™ ECF™

Extreme-Service Grease

Ospar Commission-HOCNF (Harmonized Offshore Chemical Notification Format) • Classification: "Yellow" rating for Norway • "E" for the United Kingdom and Netherlands

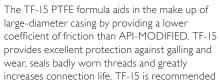
**Oilfield Specialty Greases** 

A premium, state-of-the-art, multipurpose, biodegradeable grease containing a highly synergistic blend of rust and oxidation inhibitors

plus extreme pressure and anti-wear additives for maximum performance. An excellent choice for subsea or other conditions where extreme water resistance is necessary, its non-plating, organic EP/ anti-wear additives allow ALCO-EPTM ECFTM to be used where tolerances are low and/or speeds are high.

Service Rating: -25°F (-32°C) to 450°F (232°C)

#### TF-15® High-Pressure PTFE Thread Sealant



for use as a sealant on fiberglass tubing and casing threads. It is particularly useful in areas subject to  $H_2S$  and salt water and in applications subject to vibration, pressure surge and temperature fluctuations.

Service Rating: Temperatures to 600°F (315°C), Pressures to 10,000 psi

# WIRE LINE LUBRICANT ECF™ For Slick/Electric Braided Wireline

Ospar Commission-HOCNF (Harmonized Offshore Chemical Notification Format) •

Offshore Chemical Notification Format) •
Classification: "Yellow" rating for Norway •
"E" for the United Kingdom and Netherlands

A unique product for wire line applications where a grease-type lubricant is required. The easy flow formula will stick to the wire line and penetrate the wire core for added protection and wire line life. WIRE LINE LUBRICANT ECF is  $\rm H_2S$  inhibited and has unique capabilities as a preservative against rust and corrosion. It offers excellent protection against extended exposure to the elements and UV rays. WIRE LINE LUBRICANT ECF can be applied by hand or through a pneumatic lubrication system.

Service Rating: -20°F (-29°C) to 500°F (260°C)

Note: Not for use with oxygen or strong oxidizers such as hydrogen peroxide or sulfuric acid.

> Since 1949, Jet-Lube has played an integral role in the research and development of specialty compounds.



#### **Thread Compound Usage**

#### **Drill Collar & Tool Joint Size**

	4.5"	5"	5.5"	6.625"	7"	7.625"	8.625"	9.625"
Compound OZ/PIN	2.75	3.00	3.75	4.25	5.50	7.25	9.00	9.50
Joints* PINS/GAL	51	46	42	34	30	23	17	14

#### **Tubing Size**

	2.375"	2.875"	3.5"	4"
Compound OZ/PIN	.66	.80	.88	1.12
Joints* PINS/GAL	194	160	128	114

#### **Casing Size**

	4.5"	5"	5.5"	6.625"	7"	7.625"	8.625"	9.625"	10.75"	11.75"	13.375"	16"	18.625"	20"
Compound OZ/PIN	1.88	2.09	2.30	2.76	2.93	3.19	3.61	4.03	4.50	4.92	5.60	6.70	7.79	8.37
Joints* PINS/GAL	68	61	55	46	44	40	35	32	28	26	23	19	16	15

<sup>\*</sup>When applying compound to one pin or box

#### **Oilfield Specialty Products**

#### KORR-GUARD™ Storage Compound

KORR-GUARD is a water-displacing, semi-fluid grease. It easily flows into the thread roots, displacing moisture, cutting oils and residual threading materials. KORR-GUARD will allow the thread protectors to completely engage the pipe threads and will aid in eliminating moisture penetration to the newly threaded or recut threaded areas. KORR-GUARD will not run or drip off the threads.



This unique blend of rust and corrosion inhibitors made into a grease-type product is ideal for short or long-term storage of casing, tubing, drill pipe, or any metal surface requiring protection from the elements. Ideally suited for highly humid or salt water environments. KORR-GUARD can be applied by brush. It will not harden over time, so product can be removed by using a rag or cleaner.

Service Rating: -40°F (-40°C) to 425°F (218°C)

### C-PLATE<sup>TM</sup> Copper-Rich Coating

Aids in the break-in process of freshly cut threads where platings or coatings are not available nor desired due to the occupational or environmental hazards. It can also be used in conjunction with plated surfaces for additional protection.

C-PLATE provides a durable, micro-thin coating of copper to machined surfaces. Air-cures at room temperature in 4 to 6 hours. Once cured, C-PLATE forms a durable, corrosion-resistant finish which may then be burnished into the steel surface during the initial work-hardening of the threaded connection. Prohibits the metal-to-metal contact under bearing loads which may cause galling damage to threaded connections.

### RUST-GUARD™ Rust and Corrosion Inhibitor

Formulated to provide long-term, heavy-duty protection from rust and corrosion on metal parts, tools, equipment, pipe, valves, fittings, etc. for up to twenty-four months. RUST-GUARD is the ideal product for use in harsh marine environments where water, humidity and/or salt spray is present. RUST-GUARD forms a durable, dry, waxy green film that cures in less than 24 hours. Safe to use on all metal, plastic, rubber and painted surfaces. Remove by spraying with safety solvent/degreaser. Meets U.S. Military Specifications: MIL-C-16173D and MIL-C-23411A.



Service Rating: -20°F (-30°C) to 280°F (138°C)

### **Dope Brushes**Tool Joint Compound

Tapered and Beveled ends  $\bullet$  Non-abrasive  $\bullet$  Thick handle  $\bullet$  12" & 30" brush lengths

DOPE BRUSHES for I, 2, & 5 gallon compounds. This brush is designed to hold drilling compounds for ease of applying the heavy grease based material and will not allow the compound to run or drip off the brush/bristles.

03000 — I 1/8 x 16 Taper, 03500 — I 1/8 x 16 Bevel, 02500 — I 1/8 x 30 Taper



### Moustache Brushes Thread Compound

Brush is approximately 1.0" wide. Used to apply thread compound to casing and tubing connections in those cases where minimal quantities are required.

06100 - 8" long with a 45° handle



#### **Oilfield Specialty Anti-Seizes**

#### RISER BOLT LUBE

#### Nonmetallic, High-Moly Anti-Seize Compound

Ideal for subsea riser bolt applications and all maintenance needs. RISER BOLT LUBE requires no thinning and will not harden, evaporate, or settle out. The Molybdenum disulfide (MoS<sub>2</sub>) component bonds itself into steel working surfaces providing a

long- term, low-friction shield that protects working parts, prevents galling, seizure, stick-slip, heat freeze and corrosion while sustaining lubrication. The rust-inhibiting base carrier in RISER BOLT LUBE is barium free, so it's safer for marine life in offshore installations. With a salt fog resistance of >2000 hours at 5% NaCl, RISER BOLT LUBE is far superior to that of conventional grease carriers for long-term protection.

Service Rating: -300°F (-185°) to 750°F (400°C)



### MOLY-MIST™ MoS, Dry Film Lubricant

When sprayed on any surface, MOLY-MIST "touches dry" quickly and cures in 30 minutes to an even, tenacious Molybdenum Disulfide (MoS<sub>2</sub>) coating. MOLY-MIST lowers friction, reducing torque and power consumption and prevents galling, seizure, stick-slip, fretting and corrosion. It can be applied while equipment is in motion allowing the deposit of a MoS<sub>2</sub> coating on hard to reach surfaces of fixed, moving, or irregular parts. Excellent for threads, gears, dies, taps, chains, packings, sprockets, cables, pulleys and a wide range of other applications.

Service Rating: -300°F (-184°C) to 750°F (399°C)

#### Oilfield Anaerobics/Accessories

# JET-LOK® II High-Friction and Sealing Compound

A two-part epoxy with metallic fillers to permanently lock threaded connections under normal operating conditions. Improved catalyst adds pot life and

durability with lower toxicity and rapid curing. For use on all threaded joints or fasteners where an exceptionally strong and durable bond is required. Especially useful on casing and other tubulars where the effective prevention of joint loosening is required. Also recommended for use on casing shoes, couplings and collars, eliminating the need for gas/arc welding.

Friction factor for Tubing and Casing is 1.3 to 2.0 depending on the thread design contact pressure. Drill Strings are 1.0.

Service Rating: up to 400°F (204°C)





#### **EASY CLEAN TOWELS™**

EASY CLEAN TOWELS™ are a waterless cleaner that cuts through tar, grease, wax, ink, paint, lubricants and adhesives. These non-scratching, citrus scented wipes are industrial strength but also gentle, fortified with an emollient and natural oils, so they won't crack or dry skin. Extremely versatile! EASY-CLEAN TOWELS™ hand cleaning wipes not only clean hands, but tackle almost any job, from wiping up oily spills to cleaning stainless steel tools.



For use on: hand cleaning, touch-up cleaning, wiping up oily spills, cleaning stainless steel tools and waterless cleaning.

#### **EZY-TURN® #2 FRAC Valve Lubricant**

A hydrocarbon-resistant, general-purpose gate valve sealant. This lubricant is blended from chemically stable and naturally corrosion-resistant vegetable oils. EZY-TURN #2 contains no solid fillers and is easily pumped with a high-pressure lubricator at temperatures as low as 0°F (-18°C).

Applications: Condensate, crude, kerosene, jet fuels, dilute acids, dilute alkalies, hydrocarbon gases and hydrocarbon liquids.

Service Rating: 0°F (-18°C) to 450°F (232°C) Color: Amber



Specifically designed for light-hydrocarbon liquids and gases, making it the sealant of choice for pipeline and compressor stations. Pumps easily in temperatures as low as 0°F (-18°C) with a high-pressure lubricator. With a blend of vegetable oils and molybdenum disulfide (MoS<sub>2</sub>) as a solid lubricant, EZY-TURN #3 resists all aliphatic hydrocarbons, protects internal plug surfaces and reduces valve operating torque.

Applications: Aliphatic hydrocarbons, butane, fuel oils, hot gases, LPG, natural gas and propane.

Service Rating: 0°F (-18°C) to 500°F (260°C) Color: Black

#### **EZY-TURN® #3 ARCTIC** Seat Sealant

EZY-TURN #3 ARTIC is a multipurpose valve lubricant and sealant that provides excellent overall resistance to CO<sub>2</sub>, H<sub>2</sub>S, moisture and gases. Its urethane-silicone carrier performs well to temperatures as low as -70°F(-57°C)

Service Rating: -70°F (-57°C) to 500°F (260°C) Color: Black

#### **EZY-TURN® #4 Gate Valve Sealant**

EZY-TURN #4 is formulated from food-grade polyester base fluids that provide increased resistance to aliphatic hydrocarbons. When compared with the standard vegetable products, EZY-TURN #4 has superior performance characteristics in both low and high-temperature applications. Lubrication and sealing is enhanced by the addition of molybdenum disulfide, which effectively burnishes into scratches, renewing the surface.

Service Rating: -40°F (-40°C) to 500°F (260°C) Color: Black



#### **EZY-TURN® #5** Plug Valve Sealant

A general-purpose, heavy-duty sealant that is resistant to aliphatic hydrocarbons and aqueous solutions. Formulated from nontoxic, high-viscosity vegetable oils and polymers, EZ-TURN #5 contains a food-grade thickener with no other solid lubricants or fillers.

Applications: Aliphatic hydrocarbon liquids, crude, dilute acids and alkalies, fuel oils, gasoline, natural gas and water.

Service Rating: 0°F (-18°C) to 400°F (204°C) Color: Orange

#### EZY-TURN® #12 Seat Sealant, Creamy Peanut Butter

EZY-TURN #12 is a "peanut butter" type product designed for expanding and other gate valves with body cavities. Recommended for applications where gas or liquid hydrocarbon resistance is required. It is also an ideal generalpurpose sealant. EZY-TURN #12 is formulated from vegetable oils and polymers to reduce torque during valve operation while providing a

leak-proof seal, EZY-TURN #12 injects into the valve body using a high-pressure lubricator.

Applications: Aliphatic hydrocarbon liquids, crude, dilute acids and alkalies, fuel oils, gasoline, natural gas and water.

Service Rating: 0°F (-18°C) to 250°F (121°C) Color: Brown



EZY-TURN

#### EZY-TURN® #22 **Gate Valve Seat Sealant**

EZY-TURN #22 Gate Valve Seat Sealant, Body Filler and Lubricant is a premium sealant formulated from a unique blend of synthetic and vegetable-based oils for use in expanding gate-type valves. EZY-TURN #22 contains no solid fillers that may inhibit valve lubrication. Although designed for expanding gate-type valves, EZY-TURN #22 can be effectively used on virtually any lubricated gate valve. EZY-TURN

#22 provides optimum sealability, lubricity and torque reduction while being hydrocarbon and water resistant. Easily injectable into the valve body using a high-pressure lubricator. Ideal for use with gaseous services.

Applications: Aliphatic hydrocarbon liquids, crude, dilute acids and alkalies, fuel oils, gasoline, natural gas and water.

Service Rating: -50°F (-46°C) to 300°F (149°C) Color: Yellow







EZY-TURN -



### EZY-TURN® #196

#### **High-Pressure Sealant**

EZY-TURN #196 is a premium sealant formulated from a unique blend of high-viscosity, gas-resistant synthetic and vegetable-based oils for use in all valve types. Ideal sealant for service applications involving gases, distillates, dilute acids and steam. EZY-TURN #196 contains special polymeric fibers and other sliding lubricants to enhance sealability in extreme applications. Although designed for

expanding gate-type valves, EZY-TURN #196 is used effectively on many other valve types.

Applications: EZY-TURN #196 has been formulated for use in production oilfield situations (pipeline valves) where a variety of service conditions may be required. This is a premium product and should be used where typical solid fillers mandated in the "peanut butter" type sealants do not work. The new polymeric fibers add greater performance for extreme services.

Service Rating: 0°F (-18°C) to 420°F (215°C) Color: Gold to Amber

#### EZY-TURN® H<sub>2</sub>S **Valve Sealant**

A premium vegetable and synthetic oil sealant thickened with silicone to provide maximum resistance to H<sub>2</sub>S and hydrocarbon fluids to temperatures as high as 400°F (204°C). This black, tacky compound is waterproof, corrosion resistant and is extremely adhesive to all metal surfaces.

Applications: Acid solutions, diesel fuel, hydrocarbon gases and liquids, sour gas, crude and water.

Service Rating: 0°F (-18°C) to 400°F (204°C) Color: Black

#### **EZY-TURN® HIGH-TEMP Valve Sealant**

A premium, non-melting, synthetic-based lubricant and sealant for a wide range of valves in hightemperature service. Unaffected by acids, oils, CO<sub>3</sub>, H<sub>2</sub>S, glycols, caustics, water, steam, alcohols, similar-based solvents and high pressure. EZY-TURN HIGH-TEMP contains a synergistic blend of MoS<sub>2</sub> and graphite to enhance its sealing properties

and provide lubrication to maintain operating torque at extreme temperatures where fluids are lost.

Applications: Geothermal wellheads, steam, petroleum refineries and other demanding high-temperature applications.

Service Rating:-25°F (-32°C) to 600°F (316°C)













#### **EZY-TURN® POLAR** Low-Temp, H<sub>3</sub>S-Resistant Sealant

A black lubricant for arctic oilfield applications. EZY-TURN POLAR is not affected by H<sub>2</sub>S and is pumpable with a high-pressure lubricator to -75°F (-59°C).

Applications: Carbon dioxide, sour crude, hydrogen sulfide and sour gas.

Service Rating: -75°F (-59°C) to 250°F (121°C) Color: Black

#### **EZY-TURN® PVS Plug Valve Supreme Sealant**

EZY-TURN PVS is formulated from nontoxic, high-viscosity vegetable oils and polymers to assure heavy-duty sealing and lubrication in a wide range of ball, gate and plug valves as well as orifice fittings where resistance to aliphatic hydrocarbons or aqueous solutions is required. Contains a food-grade thickener with micronized PTFE for

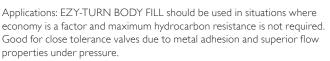


improved sealing and reduction in actuation torque. EZY-TURN PVS is the recommended plug valve sealant for maximum sealing power and lowered valve torque requirements. It works well for a majority of valve maintenance applications, is pumpable using a high-pressure lubricator, and is insoluble in oil, natural gas and water.

Service Rating: -20°F (-29°C) to 400°F (232°C) Color - Cream.

#### **EZY-TURN® BODY FILL Body Filler**

An economical petroleum oil-based sealant that readily flows into hard-to-fill orifices and channels in gate valve body cavities when pumped with a high-pressure lubricator. EZY-TURN BODY FILL is economical where hydrocarbon resistance is not a major concern, EZY-TURN BODY FILL is petroleum based, has good metal adhesion and field studies show it has excellent ability to remain in the body cavity and displace water and foreign material.



Service Rating: 0°F (-18°C) to 450°F (230°C) Color: Black

#### SILICONE COMPOUND DM™ Moisture-Proofing Sealant & Lubricant

Provides excellent lubrication and sealing properties for plug and gate valves, stuffing boxes, O-rings and vacuum and pressure systems. Will not harm most elastomers and plastics. Ideally suited for subzero processing and freezer applications. Not recommended for use on surfaces to be painted. Dielectric strength: >500volts/mil. NLGI Grade 3. Conforms to MIL S-8660-C. NATO Code# S-736.

Service Rating: -70°F (-57°C) to 400°F (204°C) NSF HI Registered

				DRIL	LING					P
PRODUCTS	Drill Collars - Severe Duty	Drill Collars - Light to Medium Duty	Tool Joints - Severe Duty	Tool Joints - Light to Medium Duty	Drill Collars & Tool Joints - Light Duty	Non-Magnetic/CRA (Corrosion, Resistant Alloy)	Large Diameter (9.5 "O.D.") Rotary Shoulder Connections	Proprietary/Non-API	API/8-Round, Line Pipe	
METALLIC PRODUCTS										
JET-LUBE EXTREME	×	×	×	×	×		×	×		
KOPR-KOTE*	×	×	×	×	×		×	X		
JET-LUBE 21*		×		×				×		
JLS*			×	×	×			X		
KOL'R-KING**		×	×			×	×			
Z-50		×		×	×					
Z-60	×	×	×							
API-MODIFIED**									X	
ENVIRO-SAFE									×	
NON-METALLIC PRODUCT	ΓS						·			
NCS-30*	×	×	×	×	×	×	×	×		
POW'R-KOTE	×	×	×	×			×	×		
KOV'R-KOTE*		×		×				×		
WHITE LIGHTNING		×		×	×		×			
RUN-N-SEAL EXTREME*							×		×	
JET-LUBE SEAL-GUARD									×	
TF-15							×			
KORR-GUARD										
CURAL				×					×	
оg-н										
AP-5										
ALCO-EP 73 PLUS										
ENVIRONMENTALLY SAFE	PRODU	ICTS								
NCS-30 ECF	×	×	×	×	×	×	×	×		
RUN-N-SEAL ECF									×	
SEAL-GUARD ECF							×			
ALCO-EP ECF										
JACKING SYSTEM GREASE ECF										

<sup>\*</sup>Available in Arctic/All Weather Grade (AWG)/Thermal Grade

<sup>\*\*</sup>Contain Lead

ROD	UCTION	/COMPLI	ETION				RI	IG MAIN	TENAN	CE		
API/Buttress	API/Buttress - Large Diameter	Premium Connections (Metal-to-Metal Seals)	Scrunch Type Connectors	Fiberglass Connections	Jack-∪p Legs	Wire Rope & Cable	Winch & Crane Gears	Rotary Table Bushings	Kelly Swivels	Anti-Seize Compounds (Stud Bolts, Motor Housings)	Storage Compound Long Term (> 6 months)	Storage Compound Short Term (6 months or less)
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### EZY-TURN® #7

EZY-TURN #7 Ball Valve Sealant is formulated from premium food-grade synthetic fluids for maximum hydrocarbon resistance over a broad temperature range. Pumpable and usable at temperatures as low as -30°F (-35°C). It also retains its firm consistency at temperatures as high as 400°F (204°C) when injected into the valve and oxygen contact is avoided. Fortified with inhibitors against H<sub>2</sub>S, rust and oxidation.



Applications: EZY-TURN #7 is an all-purpose sealant for use in any application involving aliphatic hydrocarbon product streams. EZY-TURN #7 is resistant to water and aqueous services, but is not recommended for steam service. Ideal for use in ball valves where the temperature range of conventional vegetable oil sealants precludes their use. Particularly well suited for low-temperature applications (-30°F (-35°C) to 20°F (-7°C)). Will not dissolve in aliphatic hydrocarbon services. Prevents scoring and galling on precision valve surfaces.

Service Rating: -30°F (-35°C) to 400°F (204°C) Color: Blue

# **EZY-OPEN**<sup>™</sup> Valve Penetrant (grease or liquid form)

EZY-OPEN Valve Penetrant is designed to penetrate scale, rust, corrosion and old, hardened valve lubricants which can hamper or disable valve operation. EZY-OPEN can be purchased as a soft gel or as a liquid specifically formulated from a select group of nonflammable, nontoxic and biodegradable fluids capable of softening or dissolving valve lubricants and sealants, residual gur

dissolving valve lubricants and sealants, residual gums, lacquer, scale and corrosion deposits.

Applications: EZY-OPEN valve penetrant is designed to penetrate and lubricate disabled or hard to operate lubricated valves. Excellent for use in any injectable assembly to aid in disassembly.

Service Rating: -10°F (-23°C) to 400°F (204°C) Color: Amber

#### Rig Wash

### EASY-CLEAN® LIQUID Cleaner and Degreaser Concentrate

An alkaline-based cleaner/degreaser that uniquely combines cleaning agents with a newly-developed emulsifying technology to effectively remove carbon, grease, oil and other organic deposits while being both safe and ozone friendly. Contains no I:I:I Trichloroethane, Fluorocarbons, or SARA Title III, Section 313, Part 372-listed ingredients and contains no acids, chlorides, phosphates, or TTO's (Total Toxic Organic Compounds).



### EASY-CLEAN® RIG WASH Concentrated Detergent Powder

A highly concentrated and biodegradable powdered detergent for heavy industry equipment cleaning. Emulsifies oil and greasy grime so it can be quickly washed away with fresh or salt water, leaving a residue-free surface. Will not harm painted surfaces or rubber.



#### Valve Packing - Stem

#### **EZY-PAK™** #125

#### **Extreme-Temp Packing Compound**

Specifically designed for use in severe arctic conditions. Formulated with synthetic binders, polymers, inert fillers and fibers, EZY-PAK #125 provides a flexible packing at temperatures as low as -75°F (-60°C). Pumpable with a high-pressure lubricator, EZY-PAK #125 conforms to any shape, preventing leaks and/or foreign materials from entering the valve cavity. Excellent water resistance allows use for steam applications.

Applications: Specifically designed for valves, wellheads and other equipment in arctic conditions.

Service Rating: -75°F (-60°) to 750°F (400°C) Color: Blue



#### **KOPR-KOTE®**

#### **Anti-Seize and Thread Lubricant**

-65°F to 1800°F (-54°C to 982°C) • NSF Registered (H2) • MIL PRF-907E • Load Rating - 80,000 psi • Friction Coefficient (K-factor) - .15 • 10% pure metallic copper flake • No VOC • NSN #8030-01-239-8703 • Not Classified as a Marine Pollutant • DOT approval CA2004080025



KOPR-KOTE is a combination of copper flake,

graphite and other extreme pressure additives, blended into a food grade grease base that helps properly distribute all the components on the surface of the fastener or the metal surface needing lubrication. This particle distribution is necessary to achieve the .15 K-Factor and aids in the break out process by reducing metal to metal contact that can cause friction, heat and damage to the threaded surface.

10061 – 6 oz. Squeeze Tube, 10055 – 1/4 lb. Brush Top, 10002 – 1/2 lb. Brush Top, 10004 – 1 lb. Brush Top, 10007 – 2 lbs. Brush Top, 10041 – 12 oz. Aerosol, 10050 – 14 oz. Cartridge, 10091 – 1 gal., 10092 – 2.5 gal., 10093 – 5 gal.

# ECF - ENVIRONMENTAL COMPOUND FORMULA Non-Metallic Petrochemical-Grade

**Anti-Seize and Thread Lubricant** 

-65°F to 2600°F (-54°C to 1427°C) • NSF Registered H2 (No. 139876) • MIL-PRF 907E • Load Rating - 80,000 psi • Friction Coefficient (K-Factor) -.15 • No Metallic Content • No VOC • Not Classified as a Marine Pollutant



ECF is a special non-metallic compound containing chemically inert fibers in a biodegradable base grease carrier. This unique combination of environmentally acceptable materials gives a wide temperature range, superior adhesion to steel surfaces and the ability to withstand exposure to high salt and high humidity environments. This combination of materials makes ECF outperform all other products for applications where high nickel alloys are present, in extreme chemical exposure and corrosive environments, when long term protection is required for flange bolts and any surfaces needing protection against the elements.

#### FROM AN ENVIRONMENTAL STANDPOINT:

ECF is biodegradable, non-bioaccumulation and non-toxic to all kinds of life forms. ECF will not have any HSE (Health Safety & Environment) related issues. There are no VOC (Volatile Organic Components) related issues or DOT (Department of Transportation) related concerns.

#### Product Advantages

- Contains no metals
- Excellent performance on high chrome or nickel alloys
- Excellent protection against corrosion
- Sticks to all metal surfaces
- Nonconductive

28902 – 1/2 pt. Brush Top, 28904 – 1 pt. Brush Top, 28907 – 1 qt. Plug Top, 28923 – 1 gal. Pail, 28912 – 2 gal. Pail, 28915 – 5 gal. Pail

#### 550<sup>®</sup> EXTREME<sup>®</sup>

### Non-Metallic Petrochemical-Grade Anti-Seize and Thread Lubricant

-65°F to 2400°F (-54°C to 1316°C) • MIL-PRF 907E • Load Rating - 50,000 psi • Friction Coefficient (K-Factor) - 0.17 • Highly Concentrated Blend of Molybdenum Disulfide & Graphite • No VOC



550® EXTREME® ANTI-SEIZE COMPOUND is an enhanced formulation of our 550® product.

550® EXTREME® is the ideal product for petrochemical plant maintenance needs. Its homogeneous composition offers maximum protections against seizure and heat freeze, eases assembling and dismantling, and saves man hours. It assures protection against rust, oxidation, and corrosion. It will not harden, evaporate, or settle out; and it requires no thinning. In addition to molybdenum disulfide (MoS2), graphite, and low friction fillers, 550® EXTREME® utilizes a new generation complex base grease that is fortified with effective rust and corrosion inhibitors and inherent anti-wear properties. As an added benefit of 550® EXTREME®® when compared to other Anti-Seize compounds containing greater than 40% molybdenum disulfide is the coefficient friction of 550® EXTREME® is less sensitive to temperature.

47161 - 6 oz. Squeeze Tube, 47102 - ½ lb. Brush Top, 47104 - 1 lb. Brush Top

#### SILVER PLUS REGULAR

### Regular Grade Anti-Seize and Thread Lubricant

-65°F to 1800°F (-54°C to 982°C) • MIL-PRF 907E • Friction Coefficient (K-Factor) - .15 • 15% Pure Metallic Content (Copper & Aluminum) • No VOC



SILVER PLUS REGULAR is a Heavy Duty Blend of aluminum, copper and graphite lubricants in a petroleum grease base. It is a non-drying, soft-set anti-seize, specially formulated to work with

aluminum, carbon steel, black iron and rough cut threads. SILVER PLUS REGULAR protects metal parts from rust corrosion, seizing and galling up to 1800°F (982°C). The micro-sized particles produce a smooth consistency and allow it to quickly coat fine threads and small and large diameter fasteners. The metallic components make it very conductive and, because the primary anti-seize particle is aluminum, it eliminates the potential for galvanic corrosion.

69902 – 1/2 lb. Brush Top, 69904 – 1 lb. Brush Top, 69923 – 8 lbs. (1 gal.), 69916 – 40 lbs. (5 gal.)

#### ALCO-EP-73 PLUS™

#### **Premium Multipurpose Grease**

-25°F to 450°F (-32°C to 232°C) • Superior rust and corrosion protection • Dropping point - 500°F (260°C) • Polymer additives for extreme water resistance • Color - Red • Exceeds Military spec MIL-G-18458B-SH

ALCO-EP-73 PLUS is a premium, state of the art, multipurpose aluminum complex grease containing a highly synergistic blend of rust and oxidation inhibitors plus extreme pressure and anti-wear additives for maximum performance characteristics. ALCO-EP-73 PLUS also contains polymer additives further enhancing the inherent water resistance of an aluminum complex based grease. ALCO-EP-73 PLUS is extremely resistant to rust and corrosion and ideally suited for use in high moisture areas.

Specially formulated and developed for subsea or other conditions where extreme water resistance is necessary. The highly developed additive package makes ALCO-EP-73 PLUS the premier, multipurpose grease for hostile environments.

37762 – 10 oz. Squeeze Tube, 37750 – 14 oz. Cartridge, 37716 – 35 lbs. (5 gal.), 37724 – 120 lbs. (15 gal.), 37729 – 400 lbs. (50 gal.)

#### ALCO-EP™

#### **Premium Multipurpose Grease with Moly**

-25°F to 450°F (-32°C to 232°C) • Protects against rust and corrosion • Dropping Point - 500°F (260°C) • Protects against extreme pressure, shock load, welding and scoring • Forms a protective barrier to reduce wear and extend service life.

ALCO-EP premium multipurpose grease is a versatile, aluminum complex grease with a high level of rust and oxidation inhibitors, as well as CZ-EX®, Jet-Lube's extreme pressure additive.

ALCO-EP also contains molybdenum disulfide (MoS2) and graphite, which plate out to resist metal-to-metal contact.

ALCO-EP provides superior wear protection against extreme pressure and is highly water resistant. Its 60 pound rating in the Timken load test proves ALCO-EP has excellent load-carrying ability.

ALCO-EP is designed for friction and anti-friction bearings, bushings, chassis points, U-joints, pivot pins, and a wide range of other industrial, fleet and equipment applications.

37050 - 14 oz. Cartridge, 37005 - 1 lb. Can, 37006 - 5 lbs. Can,

### **JET-PLEX-EP**<sup>™</sup> Premium Multipurpose Grease

0°F to 425°F (-18°C to 232°C)• Will not run or pound out • Pumpable hot or cold • Extremely resistant to rust and oxidation • Color - Red • Available in NLGI I and NLGI 2 grades

JET-PLEX-EP is the ideal multipurpose grease for use in extreme pressure and high temperature operating conditions. JET-PLEX-EP is manufactured from carefully selected petroleum oils and lithium complex soap to create a multipurpose grease with a dropping point of 550°F (288°C). JET-PLEX-EP has excellent resistance to water and water washout. JET-PLEX-EP is formulated with special lubricity, anti-wear, and extreme pressure additives and fortified with rust, corrosion and oxidation inhibitors.

JET-PLEX-EP is recommended for all types of bearing and sliding applications, for shock-loading, pounding, rough chassis usage and high loads

31750 – 14 oz. Cartridge, 31705 – 1 lb. Can, 31706 – 5 lbs. Can, 31716 – 35 lbs. (5 gal.), 31724 – 120 lbs. (15 gal.), 31729 – 400 lbs. (50 gal.)

#### #202 MOLY-LITH™ Multipurpose Grease with Moly

0°F to 300°F (-18°C to 149°C) • NLGI Grade 2 • Contains Molybdenum Disulfide (MoS2) for friction reduction and high load capacity • Superior metal adhesion • Pumpable • Resistant to water, heat, weathering and oxidation • Color - Black

#202 MOLY-LITH is a high temperature, lithium 12-hydroxystearate soap grease containing micro-fine molybdenum disulfide (MoS2). #202 MOLY-LITH has a dropping point of 390°F (199°C), is water resistant and displays excellent work stability under high loads, high speeds, shock and vibration.

#202 MOLY-LITH has exceptional resistance to the effects of heat, water, weathering, oxidation and heavy loads. It contains rust, corrosion and oxidation inhibitors. #202 MOLY-LITH gives unbeatable protection anywhere that dirt, dust, high humidity, rain and adverse temperatures are critical problems.

#202 MOLY-LITH is recommended for automotive and industrial applications, including all grease fittings where semi-solid or plastic consistency grease is normally used. Also for use in grease cups, pre-sealed bearings and for general chassis lubrication.

33062 - 10 oz. Squeeze Tube, 33050 - 14 oz. Cartridge, 33005 - 1 lb. Can, 33006 - 5 lbs. Can, 33016 - 35 lbs. (5 gal.), 33024 - 120 lbs. (15 gal.), 33029 - 400 lbs. (50 gal.)

#### ARCTIC™

LCO-EF

#### **Extreme Cold Temperature Grease**

-65°F to 225°F (-54°C to 107°C) • Dropping point of 285°F (141°C) • Contains no solid additives • Extremely resistant to salt spray • All temperature formula; effective winter or summer • Water resistant • Rust and corrosion resistant • Color - Amber

ARCTIC is particularly suitable for use in extreme cold environments such as cold rooms, cold storage lockers, ice plants, and on refrigeration or cold storage equipment. It will resist such environmental contact as humidity, ice, and road salts without hardening, washing off or deteriorating.

ARCTIC is an excellent service grease that has passed the Shell Roll Test for 100 hours at 150°F (66°C), and passed Federal Test Method Standard No. 791B, Method No. 3454.2 "Leakage Tendencies of Automotive Wheel Bearing Greases" and ASTM 1263. It also passes the application salt-spray resistance and rust tests required by the United States Government for its severe environmental contact greases.

ARCTIC may be used on automobiles and aircraft, in industrial applications, or anywhere lubricating properties of a moderate to severe nature are required over a wide range of temperatures.

35050 – 14 oz. Cartridge, 35005 – 1 lb. Can, 35006 – 5 lbs. Can, 35016 – 35 lbs. (5 gal.), 35024 – 120 lbs. (15 gal.), 35029 – 400 lbs. (50 gal.)



Jet-Lube Thread Sealants are manufactured to seal and secure metal, plastic and fiberglass piping and fittings by filling the voids and imperfections on the threaded surfaces and to eliminate back flow through the threads, thus causing a leak pattern. Jet-Lube thread sealants prevent leakage caused by

vibration loosening, solvent evaporation, damaged threads and temperature cycling. All sealants are specially manufactured to meet plumbing codes for use in natural gas applications, fire sprinkler system installations and general purpose applications for threaded plastic pipe.

#### **V-2**®

### Multipurpose Pipe Thread Sealant with PTFE

-70°F to 500°F (-57°C to 260°C) • NSF - 61 #21265 • Uniform Plumbing Code: IAPMO #1282 • Biodegradable • NSF PI • MIL TT-S-1732 • No VOC • Seals to 10,000 psi • Friction Factor - .07 • Brushable to 0°F • Contains PTFE • Safe to use on PVC & Fiberglass Fittings • No Odor



V-2 is a combination of vegetable oil, PTFE and inert fillers that are environmentally safe, nontoxic for use in potable water applications, on NPT and standard pipe fittings. V-2 is a soft setting product, so you can remove the fitting without damage to the threads.

This formulation also has rust and corrosion inhibitors built in so the connection/fitting will not rust or corrode. V-2 also has a bacteria/fungistat which is a food grade additive that will eliminate bacterial culturing.

35555 – I/4 pt. Brush Top, 35502 – I/2 pt. Brush Top, 35504 – I pt. Brush Top, 35507 – I qt. Brush Top, 35523 – I gal., 35515 – 5 gal., 35524 – 15 gal., 35529 – 500 lbs. (50 gal.)

#### **TF-25**™

### Line Pipe and NPT Thread Sealant and Anti-Seize

-100°F to 600°F (-73°F to 316°C)• Contains PTFE & Graphite • Brushable to 0°F • Soft Setting Formula • Non-Melt Formula • Chemically Inert • Pressures to 10,000 psi liquid and 2,000 psi natural gas & air • Friction Factor - .07



TF-25 is a thread sealant that has anti-seize characteristics, where standard thread seal

characteristics, where standard thread sealants do not have the ability to handle dual function applications. TF-25 performs both functions of sealing the threads on large diameter connections (3 I/2" and above), while also working as an assembly and disassembly lubricant. The ingredients are inert, noncorrosive, and ideal for natural gas, hot oils, desolate materials and wastewater applications. TF-25 is ideal as a thread sealant where loose fitting or worn threads are present, on imperfectly cut threads or where thread damages have occurred. TF-25 may be used on both ferrous and nonferrous metals.

23502 – 1/2 lb. Brush Top, 23504 – 1 lb. Brush Top, 23507 – 2 lbs. Plug Top, 23523 – 10 lbs. (1 gal.), 23513 – 25 lbs. (2.5 gal.), 23515 – 50 lbs. (5 gal.)

#### JET-LOK® PS-67

#### Stainless Steel Pipe Thread Sealant W/PTFE

-65°F to 400°F (-54°C to 204°C) • Contains PTFE • Viscosity (thixotrophic) 300,000 to 400,000 cps • Shear Strength - 10,000 psi • Full Cure Time - 24 Hours • Specific Gravity - 1.1 • Shelf Life - 12 Months • Approved for Potable Water

JET-LOK® PS-67 is ideal for stainless steel, aluminum, galvanized metal and other inert metals. It has been formulated for tapered metal pipe thread fittings and valves. This product has excellent solvent resistance, allows easy assembly and prevents galling. It is used on pressure valves, air compressors, and hydraulic system

tanks for positive vibration related sealing. JET-LOK® PS-67 is approved for potable water and has a unique blend of rust and corrosion inhibitors.

57666 - 50 ml. Tube, 57667 - 250 ml. Tube

#### JET-LOK® PS-92

### Anaerobic Multipurpose High-Temp Pipe Thread Sealant

-60°F to 300°F (-51°C to 149°C) • Contains PTFE •Viscosity (thixotrophic) 350,000 cps • Shelf Life - 12 Months • Specific Gravity - 1.2 • No VOC • Shear Strength - 10,000 psi • Breakaway Torque - 25-60 in. lb.

This multipurpose thread sealant is ideal for applications where high performance is required to pressurize a fitting or connection within a 24 hour period. JET-LOK® PS-92 is formulated as a sealant that locks and seals tapered metal pipe thread fittings and valves. The sealant replaces Teflon tape and conventional pipe thread compounds. Cures rapidly to pressures of 10,000 psi, prevents galling and protects mated threaded areas from rust and corrosion.

57566 - 50 ml. Tube, 57567 - 250 ml. Tube

### PETRO-TAPE™ Heavy-Duty Thread Sealant Tape

-400°F to 500°F (-240°C to 260°C) • 3-Mil Thickness • Conforms to CID A-A-58092 (MIL-T-27730A) •Inert Properties •Chemical Resistant • Pure Virgin Polytetrafluoroethylene



PETRO-TAPE is inert and highly resistant and impervious to salt water, fuels, refrigerants, acids and alkalis, including kerosene, cleaning fluids and gases. Immediate pressurization of the joint is possible. This 3-Mil tape will not tear easily, as the combination of polymers actually stretch and expand to develop a tight seal. When the NPT fitting is assembled to the pipe, the Petro-Tape will not tear or ball up in the threads during assembly which can cause leak patterns to develop.

30774 - ½" x 520", 30775 - ¾" x 520"

#### **Lubricants for Open Gear and Wire Rope Applications**

#### GEAR-GUARD™ **Premium Lubricant Paste**

0°F to 550°F (-18°C to 288°C) • Brushable/Pumpable formula • Black, Sticky Semi-Fluid • Petroleum Oil Based Material

This product has been developed to coat and protect mating surfaces of opened and closed crown ring and pinion gears.

Also used for "bull" gears, planetary ring gears and assemblies where high load contact protection is required. GEAR-GUARD contains molybdenum disulfide and graphite in a water resistance grease base so the product will not run, sling off or melt over time and exposure to the elements. This combination of durable and flexible components produces a thin film on the gears, eliminating metal to metal contact which will reduce surface heat and wear.

17941 - 12 oz. Aerosol, 17909 - 9 lbs. (1 gal.), 17916 - 35 lbs. (5 gal.)



Wire Rope, Cable and Roller **Chain Dressing & Lubricant** 

Non-Melt Base Grease • -25°F to 350°F (-32°C to 177°C) • Black Brushable Formula • NSN # 9150-01-179-0228

WLD is a blend of petroleum and organic resins that aid in adhesion

properties and make WLD highly water resistant. This formula is a coating for long-term storage to protect exposed wire rope. Ideally suited for spooling applications where pneumatic lubricators are present for applying wire rope lubricants. Our special blend of rust and corrosion inhibitors will eliminate oxidation and is UV protected. WLD will not run or drip off during transport or storage. The barrier film of WLD protects against the formation of rust and prevents "rust binding" which reduces cable flexibility and life, increasing friction and wear. WLD is well suited for walking drag line applications and as a lubricant for wire line guides and sheaves. WLD has the ability to penetrate in a working environment to protect the inner core strands of the cable or rope.

28541 - 12 oz. Aerosol, 28510 - 7 lbs. (1 gal.), 28516 - 35 lbs. (5 gal.), 28524 - 120 lbs. (15 gal.), 28529 - 400 lbs. (50 gal.)

#### OG-H™ **Heavy-Duty Open Gear Lubricant**

0°F to 550°F (-18°C to 288°C) • Non-Melt Grease Base • Brushable Formula • Black Sticky Paste

This blend of mineral oils, molybdenum disulfide and graphite combined with rust and corrosion inhibitors is ideal for open, outdoor surfaces, OG-H is specially formulated for gears, gearboxes, trunnion

rollers and thrust rollers. OG-H is ideal for gears that drive large kiln drying units. OG-H is a brushable & pumpable formula, so applying the grease to flat, tapered or open gears is easily done using a conventional paint brush or pneumatic pumping system. This uniformly blended combination of low friction ingredients provides a high film strength which reduces starting torque and lowers operating temperatures.

26050 - 14 oz. Cartridge, 26016 - 35 lbs. (5 gal.), 26024 - 120 lbs. (15 gal.), 26029 - 400 lbs. (50 gal.)



#### WRL™ (WIRE ROPE LUBRICATION/OIL) Wire Rope and Chain Lubricant

-25°F to 350°F (-32°C to 177°C) • Petroleum Oil • Color - Beige • Solvent Free • Pumpable

All wire ropes contain numerous moving parts that require lubrication. Each time the rope bends or flexes, the internal

strands rub together causing friction, heat and wear. WRL has a blend of additives that coat, cover and protect the strands from the weathering conditions caused by offshore environments. Highly resistant to rain and salt water atmospheres, ideally suited for offshore cranes and lashing lines. The formula of rust and corrosion additives make this ideal for lubricating wire rope, forklifts and any application that needs lubrication without attracting dirt and grime. WRL can also be used for cable pull systems and lines on amusement park rides.

34041 - 12 oz. Aerosol, 34010 - 7 lbs. (1 gal.),



#### MP-50™ **Multi Purpose Non-Melting Moly Paste**

50% Moly Paste • Brushable • Color - Black • -300°F to 750°F (-184°C to 399°C) • Organic Clay Mixture with Moly • Non-Melting Formula • 300,000 psi Contact Stress Load • NAVSEA TMS S 9558-AA-MMA-100

MP-50 was developed for applications where extreme high loads are present, like center bowl

lubrication points for rail cars and walking cams for dragline cranes. This product is highly saturated with molybdenum disulfide in a thick non-melt grease base for stay put properties. MP-50 is designed to handle high pressure and high heat applications like mandrel forming presses, and is used as a valve stem lubricant for many OEM valve manufacturers.

28003 - 1 lb. Plug Top, 28007 - 2 lbs. Plug Top, 28023 - 12 lbs. (1 gal.), 28013 - 30 lbs. (2.5 gal.), 28015 - 60 lbs. (5 gal.)





#### 769 LUBRICANT®

#### Nonflammable Penetrant/ Lubricant/Moisture Displacer/ Protectant

NSF Rated H2 • 35KV Dielectric Strength • Nonflammable • Nonevaporating • Contains No Silicones • NSN #'s – 9150-00-261-789, 8030-99-923-1633, 8030-00-181-7603 • MIL-C-81309 Type II & III, Class II, CO2 Grade (Aerosol) • MIL-C-81309 • Type II & III, Class I (Bulk) • MIL-C-16173E Grade 3 • MIL-C-23411A, VV-P-216B



769 LUBRICANT is the foremost lubricating, penetrating, moisture displacing, and corrosion preventative coating available today. Unequalled where salt water, salt spray or other harsh environments are present. 769 LUBRICANT gives total performance while being environmentally safe, easy to use and nonflammable.

Lubricates: Contains ashless, extreme pressure additives and highly refined lubricating oils that provide superior lubricating protection and anti-wear properties.

Penetrates: Rusted and frozen metal parts – studs, nuts, screws, pins, linkages – are easily loosened by means of superior "creepability."

Removes Moisture: Moisture is lifted and displaced rather than trapped. Pores and crevices of surfaces are freed from moisture and are coated with a thin, non-greasy film that prevents additional moisture from clinging or entering.

Prevents Rust & Corrosion: Thin film adheres to metallic surfaces, providing positive, temporary protection against the formation of rust and corrosion, including electrolytic and galvanic corrosion common in salt environments.

37341 — 12 oz. Aerosol, 37343 — 16 oz. Trigger Spray, 27533 — 1 gal., 27535 — 5 gal., 27529 — 50 gal.

### ALL PURPOSE LUBRICANT All Purpose Lubricant and Penetrant

ALL PURPOSE LUBRICANT is a new generation penetrant that is approved in California and all of the OTC States. The non-staining fast penetrating lubricant is ideal for changing environments as well as an everyday lubricating spray for light to medium duty applications. All PURPOSE LUBRICANT is designed to lubricate, penetrate, displace moisture and prevent against corrosion.



50441 - 13 oz. Aerosol



Contains No Fluorocarbons  $\bullet$  Indoor and Outdoor Formula  $\bullet$  MIL-PRF-16173E

MIL-PRF-16173E
RUST-GUARD is a specialized water displacing formula which dries to a uniform, thin waxy film to effectively seal out

moisture and corrosion. RUST-GUARD provides long-term protection on all metal and alloy surfaces, even under harsh environmental conditions such as water, high humidity or salt spray. Bulk formula typically provides six months outdoor and one year indoor protection against rust and corrosion. RUST-GUARD may be used indoors or outdoors as a protective coating on raw materials, machined parts, tools, pipe, fittings, valves, etc., while they are being stored or in transit. RUST-GUARD will not crack or flake off; it penetrates fully into even the smallest crevices to displace moisture and prevent rust and corrosion. RUST-GUARD is green in color to provide a visual check of product application and is easily and safely removed by use of a safety solvent such as Jet-Lube CLEAN-UP.

13241 - 11 oz. Aerosol, 13233 - 1 gal., 13235 - 5 gal., 13229 - 50 gal.

### MOLY-MIST™ MoS2 Dry Film Lubricant

Noncorrosive • Bonds to Most Porous & Nonporous Metals • -300°F to 750°F (-184°C to 399°C)

MOLY-MIST lowers friction, prevents galling, seizure, stickslip, fretting, corrosion and metal-to-metal contact; reduces torque and power consumption. It can be applied while equipment is in motion, deposits a coating of MoS2 on hard to reach surfaces of fixed, moving or irregular parts. MOLY-MIST is used wherever a dry lubricant is needed, particularly where temperatures are extreme, where environments are hostile, and where friction must be kept to a minimum.

MOLY-MIST provides the initial lubrication protection that is needed where conventional lubrication in most cases cannot. Its low coefficient of friction, bonding tenacity, and ability to sustain lubrication make MOLY-MIST a pre-assembly necessity. Lubrication — or lack of lubrication — on the first pass or revolution of a wearing surface to a large extent determines the life of a component. New parts contain rough surfaces in the form of microscopic imperfections. Use of MOLY-MIST during initial "running in" period will provide extended service life.

16041 – 12 oz. Aerosol, 16015 – 35 lbs. (5 gal. Pail), 16025 – 110 lbs. (15 gal. Drum), 16029 – 380 lbs. (50 gal. Drum



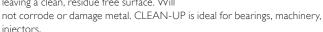
#### **Coatings, Specialties and Cleaners**

#### **CLEAN-UP™**

### Industrial Cleaner & Safety Solvent

NSF Rated KI • Non-flammable • Ozone Friendly • Acid, Alkali Free • Low Odor • >29KV Dielectric Strength

CLEAN-UP is a heavy-duty, low-foaming, chlorinated solvent that rapidly dissolves oil, grease, paint, tar and grime on contact, leaving a clean, residue free surface. Will



engine parts, tools, cables and more.

61542 - 18 oz. Aerosol, 61533 - 1 gal., 61535 - 5 gal.

### **CLEAN-UP II**<sup>™</sup> Industrial Cleaner & Safety Solvent

Low VOC Formula • Compliant in all 50 states • Residue free • Ozone friendly

CLEAN-UP II is a specially formulated low VOC blend of organic solvents designed to quickly dissolve and rinse away dirt, grease, grime, oil, tar and wax while being both environmentally responsible and ozone friendly. The product contains no chlorinated or fluorinated solvents, no hazardous air pollutants and evaporates residue-free quickly. This product is California compliant and acceptable for use in CARB/OTC States.

CLEAN-UP II starts working immediately on contact, breaking down and dissolving even stubborn contaminants without the use of fluorinated, chlorinated or SARA listed ingredients. Safe on all metals and some plastics. For sensitive materials, test on an inconspicuous small area first to determine acceptability. For electrical services the system must be off and time given to evaporate before re-energizing the system to avoid flash or fire.

61442 - 14oz Aerosol, 61435 - 5 gal., 61429 - 50 gal.



### **CLEAN-UP PLUS™**Citrus Degreaser

NSF Rated CI • Replaces I:I:I Trichloroethane • Nonflammable Propellant • Natural Organic Formula • Ozone Friendly • Biodegradable • 29KV Dielectric Strength

High performance blend of safe, organic solvents quickly dissolves and rinses away dirt, grease, grime, oil, tar, and wax, while



being both environmentally safe and ozone friendly. Works immediately on contact, breaking down and dissolving even the most stubborn contaminants without the use of fluorinated, chlorinated or SARA listed ingredients. Slowly evaporates while cleaning, leaving a residue free surface. CLEAN-UP PLUS is safe on all metals and most plastics.

72542 - 15 oz. Aerosol, 72535 - 5 gal., 72529 - 50 gal.

#### Reference

#### Valve Lubricant/Sealant Comparison

JET-LUBE®	CHEMOLA DESCO	CLIMAX	COOPER/ CAMERON	FMC	HUSKEY	LUBCHEM	NORDSTROM BTR/AUDCO	OCR	R.S. CLARE & CO.	SEALWELD	VALTEX	ABB VETCO GRAY	w-к-м	OTHERS
EZY-TURN® #2	600	650	0315452701 stick 0315452702 stick	-	#6	#1, #4	555 WG	600	-	EQUA-LUBE 80	80	Y002 or VGS 5.3100.1	112	Daniel Type I Size B
EZY-TURN® #3	III (HS) 955	900	-	G70200	-	#3	-	-	C.M. Compound	-	PL 1000	-	-	Wetherford Well Cat
EZY-TURN® #4	422	350A Poly Seal 3	71383711-5lb 71383712-25lb 1383713-120lb 700677-12lb 71383714- 400lb	-	-	-	735	_	VALVE LUBE 601	-	50 972K	-	-	-
EZY-TURN® #5	600, 800	650, 800	See EZY-TURN #2	P/N 3256666 (stick)	#4	_	555,654	611 stick	-	-	85	-	-	-
EZY-TURN® #6	-	Poly Seal 6,220	_	-	-	50-400 FORMASIL CO <sub>3</sub>	1033	-	-	-	-	-	-	-
EZY-TURN® #7	433	-	_	-	-	-	_	-	-	-	-	-	-	-
EZY-TURN® #8	TFE SEAL 104	900 TC	-	-	#2 HD Teflon	#1, #2, #3	-	404	-	#5050	-	-	-	-
EZY-TURN® #12	620	102-SWS & 110	-	-	-	102 Special & 196 Special	-	616	-	-	60	-	102	McEVOY RS 1608
EZY-TURN® #22	622	650, 800	-	-	#6	#1, #4	733	-	-	-	-	VGS 53100.1	112/105	-
EZY-TURN® 196	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EZY-TURN® BODY FILL	TF-41 960	S-100	700667-5lb 700668-20lb 700669-120lb 700770-400lb PS-1_1603 700676-25lb	G70100	Body Fill	Longlife 1600 (closer to Jet-Lube CB-2)	X-208	_	G.P. VALVE GREASE	-	-	-	108	-
EZY-TURN® H <sub>2</sub> S	SS-14	340 360HS	PS-1-1605, TS-41H	-	-	50-500	X-184	-	_	D-1014	972	-	375	Magnalube
EZY-TURN® POLAR	HS-LT III(LT)	901 Frosty 220	41H PS-1-1604 700671-5lb 700672-25lb 700673-120lb 700674-400lb	G70302	-	LONGLIFE ARCTIC BP ARCTIC	862	610	Lt. VALVE LUBE & H.L. Low Temp	-	-	Y004 VGS 53100.3	-	-
EZY-TURN® PVS	-	-	-	-	-	_	950	-	-	Total Lube 911	-	-	-	-
EZY-OPEN™ Gel	VALVE CUT	Valve Tum	_	-	Valve Cheater	VALVE SAVER	VPX Valve Purge	613	-	Valve Cleaner	-	-	-	-
EZY-OPEN™ Liq	-	-	-	-	-	-	-	-	-	-	Valve Flush	-	-	-
EZY-PAK™100	VERSI-PAK	PAC EZ	-	-	-	TFE Stem Pack	_	-	-	Slick Sticks	-	-	-	Bergmann 8032 SCW
EZY-PAK™II5	#625	-	J STIK 022 176-06-000-00	-	_	TFE Self Mold Packing	Stem Packing 903	-	-	-	-	-	109, 115, 107	-
EZY-PAK™120	STEM-PAK	-	-	G70700	-	PAK-OFF	Stem Packing 909	-	-	-	-	300- 461-2	-	-
EZY-PAK™125	ARCTIC PAK & SILCONE PAK 2511	-	-	_	-	Low Tempera- ture Pak	-	-	-	-	_	-	-	-

> Each compound is manufactured using only proven formulas for high and low temperatures and a full range of valve and service conditions.

**Anti-Seize Compounds** 

Product	Specifications	Temp Range	K-Factor	NSF	Marine Grade	Recommended ASTM Specs	Features
Kopr-Kote	Exceeds MIL-PRF-907E	-65°F to 1800°F -54°C to 982°C	0.15	H-2		A307, A354, A193/A193M, A320/A320M, AF468, A563, F467	Ideal for high temp, stress and load applications. Not recommneded for aluminum fittings and fasteners
550 Extreme	Exceeds MIL-PRF-907E	-65°F to 2400°F -54°C to 1316°C	0.17			A307, A449, A193/A193M, A320/A320M, F593, Ax563, A194/A194M, F594, F467, A153, B690, B696	Enhanced formulation of 550 to better enable assembly and dismantling of threaded connections. General purpose water resistant lubricant for use on steel, aluminum & cast iron.
Silver Plus	Exceeds MIL-PRF-907E	-65°F to 1800°F -54°C to 982°C	0.08			A307, A354, A193/A193M, A320/A320M, F468, A563, F467	Micro-sized particles allow it to quickly and easily coat fine- threaded, small & large diameter fasteners
ECF		-65°F to 2600°F -54°C to 1427°C	0.15				Superior adhesion to wet steel surfaces and resistant to water wash off

#### **EP Greases**

Product	Туре	Color	Temp	Specifications	NLGI Grade	Marine	NSF	Features
#202 Moly-Lith	Lithium	Black	0°F to 300°F -18°C to 149°C		2			Multi-purpose grease with moly
Jet-Plex-EP	Lithium	Red	0°F to 450°F -18°C to 232°C		1 & 2			Premium multi-purpose grease
Alco-EP-73 Plus	Aluminum Complex	Red	-25°F to 450°F -32°C to 232°C	MIL-G-18458B (SH)	2	Yes		Premium multi-purpose grease
Alco-EP	Aluminum Complex	Black	-25°F to 450°F -32°C to 232°C		2	Yes		Premium multi-purpose grease with moly
Arctic	Calcium	Amber	-65°F to 225°F -54°C to 107°C		2			Effective in extreme cold

#### **Thread Sealants**

Product	Specifications	Temp	Pressure	NSF	Features
V-2	MIL-TT-S-1732 (formerly MIL-T-27730A)	-70°F to 500°F -57°C to 260°C	10,000 psi liquid 2,000 psi gases	PI NSF-61	Vegetable oil-based, soft-setting, for use with potable water
TF-25		-100°F to 600°F -73°C to 316°C	10,000 psi liquid		Ideal for pipe diameters larger than 3 inches
Petro Tape	CID A-A-58092 (formerly MIL-T-27730A)	-400°F to 500°F -240°C to 260°C			2 mil thicker than average tapes One wrap application

#### Lubricants

Product	Temp	NLGI	Color	NSF	Marine	Features
Gear-Guard	-25°F to 350°F -32°C to 177°C	3	Black, Paste			Ideal for all heavily loaded applications
OG-H	0°F to 550°F -18°C to 288°C	3	Black, Paste			Highly adhesive and easy to apply
WLD	-25°F to 350°F -32°C to 177°C		Black, Paste		Yes	Ideal for use in salt water environments
WRL	-25°F to 350°F -32°C to 177°C		Amber		Yes	Provides a non-drying, non-tacky film
MP-50	-300°F to 750°F -184°C to 399°C	3.5	Blue to Black			"Plates" metal surfaces

et-Lube has been a leader in the development and manufacturing of high quality grease products since 1949.

Jet-Lube is recognized by the NLGI (National Lubrication Grease Institute) as a master blender of grease products, by the ASTM for our research, test and R&D lab, and the U.S. government for our Mil-Spec test capabilities.

Jet-Lube's reputation as an industry leader has been earned in the world's harshest environments and the most demanding applications.

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