





**For nearly 70 years,** Bel-Ray® products have proven their value, setting the highest standards of quality and performance. A leader in lubrication technology, Bel-Ray® has engineered products to provide maximum machine protection, delivering superior value for applications in aerospace, automotive, energy, food, marine, military, mining, motorcycle, OEM, powersports, steel, textile and other industries served by our **Powersports, Automotive, Industrial and Mining Divisions.** 

## SUSTAINABILITY

**Environmental Carbon Management (ECM)** reduces the overall carbon footprint with responsible waste management and eco-friendly/partially recycled products, packaging, collateral and more. Look for the ECM logo on all Bel-Ray® products!

**Since 1946,** Bel-Ray<sup>®</sup> has been the hardest working lubricant company in the business. Using Bel-Ray<sup>®</sup> to lubricate your machinery gives your entire business a boost. We help reduce costs and increase production across a wide range of industries.

Through our Total Lubricant Partnership (TLP), we help you choose the best solutions for your machinery, always matching the right products to the right applications. Bel-Ray® Mining Lubricants are formulated for mining machinery; severe applications working in the harshest environments and climates. With Bel-Ray®, each moving part is effectively lubricated helping to reduce energy and lubricant consumption and extending part, component and system service life and increasing production output. Lubrication, maintenance and replacement parts related costs are significantly reduced. Downtime is reduced and uptime is increased increasing productivity and reducing cost of ownership.

Bel-Ray® products are formulated to exceed OEM specifications and meet the challenges of mining machinery, manufactured in the USA, combining the latest technology with the finest raw materials.

## **VALUE**

- More than 70 years' experience
- On-site R&D
- Unrivaled customer support
- Global distribution
- Products made in the USA
- Strategic network of regional offices

## **SERVICES**

- Lubrication management services
- Lubrication system inspections
- Consumption evaluations
- Routine oil analysis
- Component inspection/failure analysis



When you can't afford to take any risks, Bel-Ray® is right for the job.

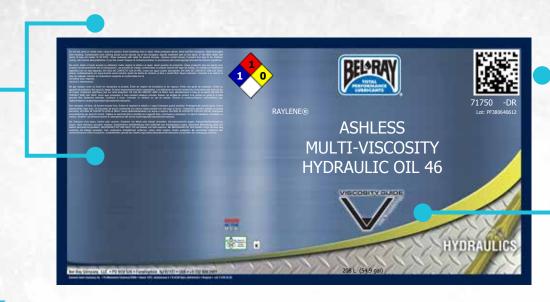
# FLEX YOUR OPERATION

As part of our commitment to quality and success, Bel-Ray® continually develops new products to better serve your mining and industrial needs. For the most current product selection, please visit belray.com.

Contact Customer Service at 732-938-2421 or email tsq@belray.com

for information on all Bel-Ray® products or for your Specialty Applications.

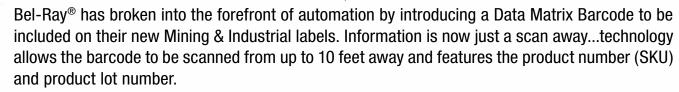
# **LUBRICATION INNOVATION**



#### **MULTILINGUAL LABELS**

World-renowned products require globally compliant labeling systems. Bel-Ray's® new Mining and Industrial labels feature the implementation of GHS (Globally Harmonized System of Classification and Labeling of Chemicals) regulatory standards, as well as multilingual regulatory information. In addition to English, the labels include information in Spanish, French, Italian and German. Aerosol products feature regulatory information in 25 languages for global distribution.

#### **DATA MATRIX BARCODE**



#### **VISCOSITY GUIDE**

Innovations continue with Bel-Ray's® new one-of-a-kind Viscosity Guide. This visually facilitates the use and selection of the appropriate ISO (International Standards Organization) viscosity grade.

#### **COLOR CODES & ICONS**



Bel-Ray $^{\circ}$  has made product identification simple with color codes and iconography. Mining and Industrial products have been segmented to align with the following categories and colors:





















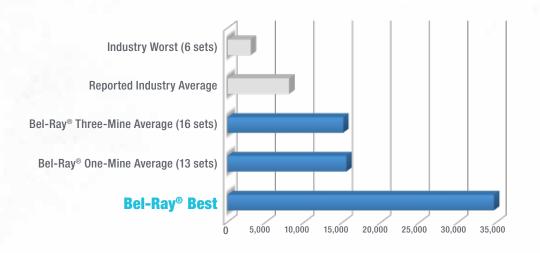
# **UNPARALLELED VALUE**

#### TIME IS MONEY.

Proper lubrication can save time, maximize profits and extend equipment life.

#### **OPERATING HOURS ON LINERS**

(Molylube® SF 100 and CAT 7495 Saddle Block Bushing)





The extended liner life that Molylube® SF 100 achieves proves its technological superiority. This results in increased production per unit at an overall reduced unit cost

#### MONEY TALKS.

Understand the benefits of a custom-fit lubricant and unleash the savings.

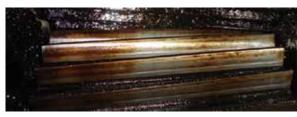
#### **CLEANER GEARS RUN SMOOTHER**

(Clear Gear Lubricant Introduction)

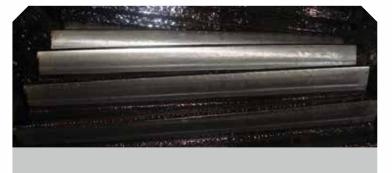
These pictures were taken during a conversion to Bel-Ray® Clear Gear Lubricant



**Competitor OGL** 



2 days after conversion to Clear Gear



## Only 10 days

after conversion to Clear Gear and gear teeth are completely cleaned

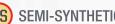
2

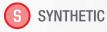
				XX	$\leq$	ssure	ion istant	a	410
		Legacy Product Number	New SAP Product Number	Product Grade	Anti-Wear	Extreme Pressure	Rust, Corrosion 8 Water Resistant	Product Type	Color
1	Biodegradable Multipurpose Extreme Pressure Grease	56851	301544	NLGI 2		•	•	E B	
5	Molylube® 3% Moly Extreme Pressure Grease LC	67850 67860 67870	301084 300885 301613	NLGI 0 NLGI 1 NLGI 2				M	
3	Molylube® 5% Moly Extreme Pressure Grease AC	69360 69520 69480 69500	301750 301753 300886 300936	NLGI 0 NLGI 0 NLGI 1 NLGI 2				M	
4	Molylube® 5% Moly Extreme Pressure Grease LC	67820 67832	301612 301083	NLGI 1 NLGI 2				M	















Email tsq@belray.com for information on specialty applications.



#### **BIODEGRADABLE MULTIPURPOSE EXTREME PRESSURE GREASE**



A high-performance, Extreme Pressure grease, with >60% biodegradability, for general purpose lubrication. Vegetable oil-based for excellent biodegradability and high renewable content. Excellent water washout resistance and mechanical and thermal stability. Superior load-carrying capabilities as well as outstanding rust, corrosion and wear protection for extended component life. The rate of biodegradation is performed according to ASTM D5864 (OECD 301B Modified Sturm Test). Useful temperature range -10°C to 70°C (14°F to 158°F).

Thickener: Organoclay | Base Oil ISO VG: 100 (NLGI 2) | Speed: Medium M





#### MOLYLUBE® 3% MOLY EXTREME PRESSURE GREASE LC



3% MOLY GREASE

A high-performance, lithium complex grease containing 3% molybdenum disulfide, as required by many off-highway equipment OEMs. Exceptional mechanical and thermal stability, excellent anti-wear and Extreme Pressure properties, unsurpassed rust and corrosion protection and resistance to water. Exceeds all of the multipurpose grease requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of the all major OEMs for multipurpose Extreme Pressure greases. Useful temperature range -18°C to 177°C (0°F to 350°F).

Thickener: Lithium Complex | Base Oil ISO VG: 150 (NLGI 0) 200 (NLGI 1) | Speed: Low L Medium M





#### MOLYLUBE® 5% MOLY EXTREME PRESSURE GREASE AC

APPLICATION



5% MOLY GREASE A high performance aluminum complex grease fortified with excellent Extreme Pressure and anti-wear properties for maximum wear protection. Contains 5% molybdenum disulfide as required by many off-highway equipment OEMs. Weld Load on 4-Ball EP test performance of 800 plus kg and Load Wear Index of 135 kg. Exceeds all of the multipurpose grease requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of the all major OEMs for multipurpose Extreme Pressure greases. Useful temperature range -18°C to 177°C (0°F to 350°F).

Thickener: Aluminum Complex | Base Oil ISO VG: 46 (NLGI 0) 150 (NLGI 0) 220 (NLGI 1) 220 (NLGI 2)

Speed: Low L Medium M



#### MOLYLUBE® 5% MOLY EXTREME PRESSURE GREASE LC

APPLICATION



5% MOLY

GREASE

A high-performance, lithium complex grease fortified with 5% molybdenum disulfide as recommended by many equipment manufacturers. Excellent Extreme Pressure capabilities as well as outstanding mechanical and thermal stability. Unsurpassed rust and corrosion protection and resistance to water. Exceeds all of the multipurpose grease requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of the Caterpillar (Bucyrus International) SD4711 and Joy Global P&H 472 standards for multipurpose greases. Useful temperature range -18°C to 177°C (0°F to 350°F).

Thickener: Lithium Complex | Base Oil ISO VG: 220 (NLGI 1) 460 (NLGI 0) | Speed: Speed: Low L Medium M



















Email tsq@belray.com for information on specialty applications.



#### **MOLYLUBE® 87M EXTREME PRESSURE GREASE**



GREASE

Molylube 87M EP Grease is an aluminum complex multi-purpose grease. It contains Molylube Solids, a Bel-Ray proprietary blend of molybdenum disulfide and select graphite to reduce operating temperature and wear. Molylube 87M EP Grease is designed to extend the service life of machine components in the severe duty applications encountered in mining, quarrying, construction, cement and other heavy industries. Molylube 87M EP Grease is especially effective when used to lubricate the suspension components of heavy-duty equipment such as excavators, dozers, loaders and haul trucks.

Thickener: Aluminum Complex | Base Oil ISO VG: 150 (NLGI 1) | Speed: Low L Medium M

2

#### **MOLYLUBE® EXTREME PRESSURE GREASE AC**



GREASE

APPLICATION

A severe-duty, impact-resistant, aluminum complex grease fortified with molybdenum disulfide. Excellent Extreme Pressure capabilities, outstanding mechanical and thermal stability. Exceptional water washout resistance, rust and corrosion protection. Exceeds all of the multipurpose grease requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of all major OEMs for multipurpose Extreme Pressure greases. Useful temperature range -12°C to 177°C (10°F to 350°F).

Thickener: Aluminum Complex | Base Oil ISO VG: 150 (NLGI 0) 220 (NLGI 1) 150/220 (NLGI 1)

Speed: Low L Medium M

3

#### **MOLYLUBE® EXTREME PRESSURE HIGH-VISCOSITY GREASE**

APPLICATION



A high viscosity base oil aluminum complex grease fortified with molybdenum disulfide and Extreme Pressure additives. Excellent mechanical and thermal stability. Highly water resistant. Grade 680-1 is Komatsu approved. Useful temperature range 0°C to 177°C (32°F to 350°F).

Thickener: Aluminum Complex | Base Oil ISO VG: 680 (NLGI 1) 680 (NLGI 2) | Speed: Low L Medium M











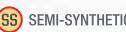






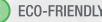












Email tsq@belray.com for information on specialty applications.



#### **MOLYLUBE® HIGH TEMPERATURE GREASE**



A synthetic, ester-based high-temperature grease with molybdenum disulfide, designed specifically for extended lubrication cycles in heavily loaded applications. Useful temperature range -18°C to 316°C (0°F to 600°F).

Thickener: Sodium Complex | Base Oil ISO VG: 150/220 (NLGI 1) | Speed: Low L Medium M



#### APPLICATION



GREASE

MOLYLUBE® LOW-TEMPERATURE **MULTIPURPOSE GREASE** 

An aluminum complex grease fortified with Molylube® Solids. Excellent Extreme Pressure capabilities. Outstanding mechanical and thermal stability. Exceptional water washout resistance, rust and corrosion protection. It has excellent pumpability characteristics for exceptionally cold ambient conditions. Useful temperature range -40°C to 149°C (-40°F to 300°F).

Thickener: Aluminum Complex | Base Oil ISO VG: 46 (NLGI 1) | Speed: Medium M High H



#### **MOLYLUBE® MULTIPURPOSE EXTREME PRESSURE GREASE WITH MOLY**



PRESSURE

GREASE

An aluminum complex, multipurpose grease fortified with molybdenum disulfide for effective heavy-duty service. Outstanding mechanical and thermal stability to withstand shock and heavy loading found in severe environments of mining, construction and process industries. Exceptional water washout resistance, rust and corrosion protection. Exhibits good cohesive and adhesive characteristics. Exceeds all of the multipurpose grease requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of all major OEMs for multipurpose Extreme Pressure greases. Useful temperature range -26°C to 177°C (-15°F to 350°F).

Thickener: Aluminum Complex | Base Oil ISO VG: 220 (NLGI 1) | Speed: Low L Medium M









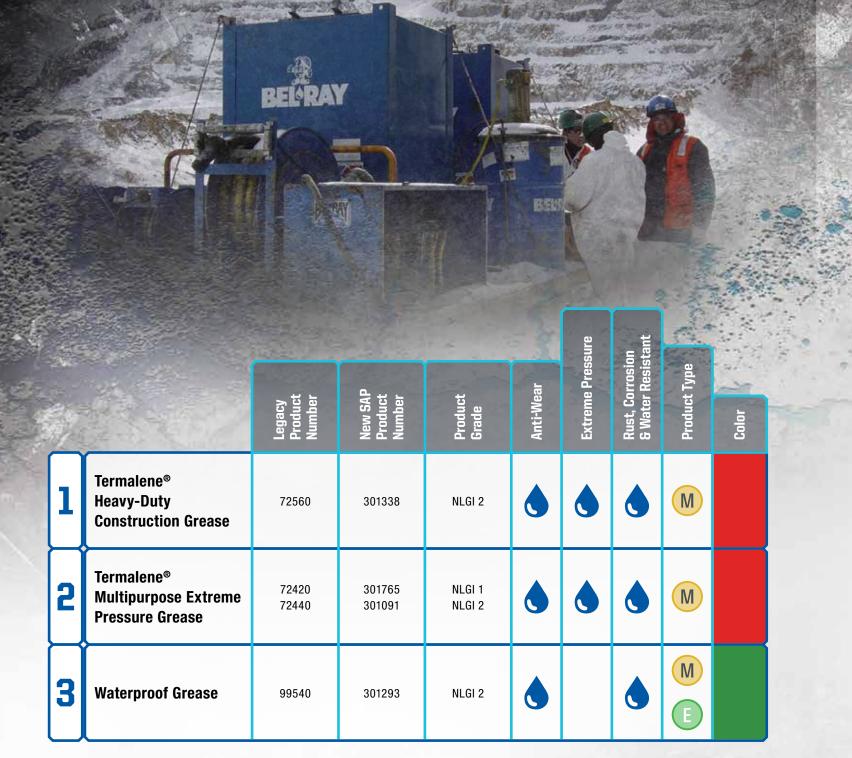








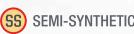


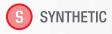
















Email tsq@belray.com for information on specialty applications.



#### TERMALENE® HEAVY-DUTY CONSTRUCTION GREASE



Extremely tacky, red, aluminum complex grease. Excellent load carrying capabilities. Exceptional water resistance. Useful temperature range -9°C to 177°C (15°F to 350°F).

Thickener: Aluminum Complex | Speed: Low L Medium M



## TERMALENE® MULTIPURPOSE **EXTREME PRESSURE GREASE**



A red, general purpose, aluminum complex grease. Excellent extreme pressure and anti-wear properties provide superior machine protection. Useful temperature range -9°C to 120°C (15°F to 250°F).

Thickener: Aluminum Complex | Speed: Low L Medium M



#### **WATERPROOF GREASE**



A very tacky, green, general purpose mixed thickener grease. Fortified with synthetic polymers for superior waterproof properties and rust/corrosion inhibitors, this grease is ideal for wet environments. Useful temperature range -20°C to 177°C (-4°F to 350°F).

Thickener: Al - Ba Complex | Speed: Low L Medium M



		Legacy Product Number	New SAP Product Number	Product Grade	Anti-Wear	Extreme Pressure	Rust, Corrosion 6 Water Resistant	Product Type	Color
1	100 Gear Oil Extreme Pressure Gear Oil	21420 21440 21470 21480 21500 21520	301692 301195 301196 301197 301198 301693	ISO 150 ISO 220 ISO 320 ISO 460 ISO 680 ISO 1000		•	•	M	
2	Heavy-Duty Diesel Engine Oil	61580	301054	SAE 15W-40				M	
3	Raylene Ashless Multi-Viscosity Hydraulic Oil	71750	300938	46				M	















Email tsq@belray.com for information on specialty applications.

# APPLICATION

#### 100 GEAR OIL EXTREME PRESSURE GEAR OIL

**PURPOSE GEAR OIL**  An exceptional heavy-duty gear oil formulated for all types of gearing. It provides Extreme Pressure and anti-wear properties. Boasts 100-pound Timken OK Load, FZG 12+ Load Stages and 4500 pound true load value Falex EP Test, excellent demulsibility, and exceeds manufacturers' specifications. Forty-year history of exceptional performance leading to extended component life. Exceeds all of the enclosed gear oil requirement of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of all major mining OEM requirements for enclosed gear oil. ISO VG 320 is approved against the Caterpillar SD4720 standard for electric rope shovels' enclosed gear cases. Grades ISO VG 150, ISO VG 220 are Bosch Rexroth approved.

## 2

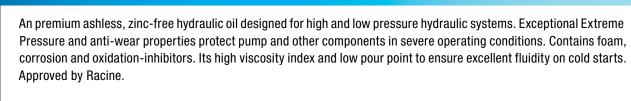
#### **HEAVY-DUTY DIESEL ENGINE OIL**



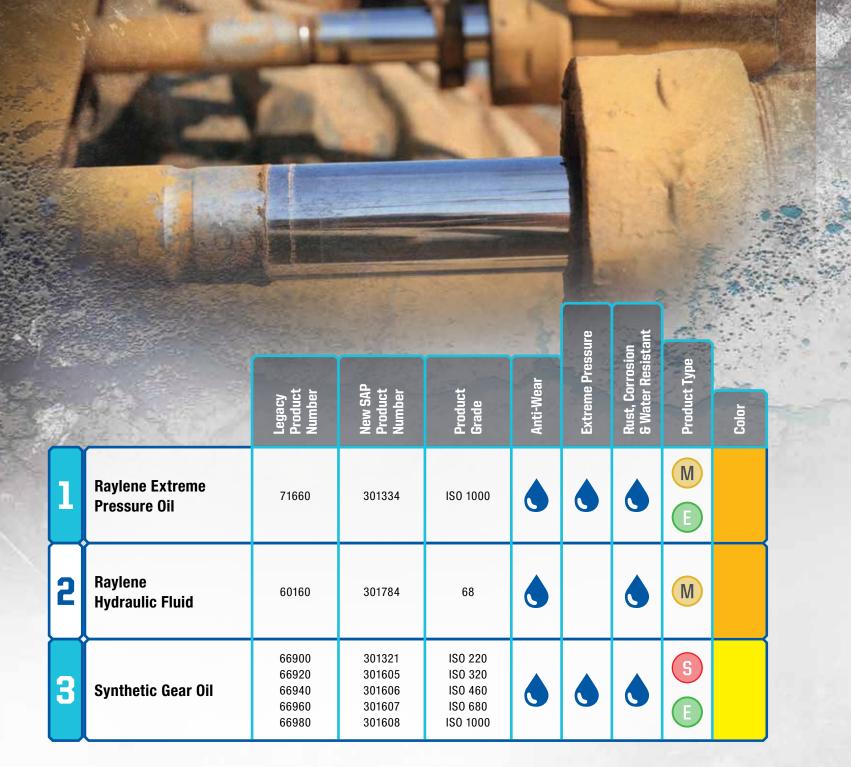
An exceptional motor oil formulated for use in diesel and gasoline engines where extended oil drain intervals are desired. Provides superior lubrication performance in heavy-duty diesel or gasoline engine applications commonly found in the mining, transportation and marine industries. API SL/CI-4. An excellent oil for mixed fleet use. TBN 14 base level for extended change intervals.



#### RAYLENE ASHLESS MULTI-VISCOSITY HYDRAULIC OIL



















Email tsq@belray.com for information on specialty applications.



#### RAYLENE EXTREME PRESSURE OIL

**PURPOSE** 

An exceptional heavy-duty gear oil formulated for all types of gearing. Provides Extreme Pressure and anti-wear properties. Boasts a 100 pound Timken OK Load and FZG 12+ Load Stages. Provides micropitting protection. Excellent thermal stability and demulsibility. Does not contain hazardous chemicals such as chlorine, lead, zinc or antimony.



#### RAYLENE HYDRAULIC FLUID



A mainline anti-wear hydraulic oil that meets the general requirements of industrial hydraulic systems. Also suitable for a broad range of applications including hydraulic and circulating systems, turbines, pumps, bearings, light to moderate duty enclosed gears and general machinery lubrication. Typical 6,000 hour service life. DIN 51 524 (HLP) performance.



#### SYNTHETIC GEAR OIL



A full synthetic PAO and ester gear lubricant. Outstanding Extreme Pressure and anti-wear properties, as well as excellent viscosity-temperature properties. Extremely low coefficients of friction and traction. Compatible with mineral oils. Exceeds all of the enclosed gear oil requirement of walking draglines, electric rope shovels and hydraulic excavators. Grades ISO VG 220 thru ISO VG 680 are approved by Flender. Grade ISO VG 460 is approved by Le Tourneau for electric drivers. Grades ISO VG 220 thru ISO VG 460 are approved by Bosch Rexroth. ISO VG 680 is approved by General Electric and Komatsu for wheel motor applications. Grade ISO VG 320 is approved against the Caterpillar SD4720 standard for electric rope shovel enclosed gear cases.

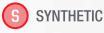


		Legacy Product Number	New SAP Product Number	Product Grade	Anti-Wear	Extreme Pressure	Rust, Corrosion & Water Resistant	Product Type	Color
1	Clear Gear Lubricant	21324 21325 21326	301688 301193 301689	Medium Standard Heavy		•	•	S E	
5	Molylube® Mill Gear Compound	76980	301771	N/A		•	•	M	
3	Molylube® Mill Gear Grease	76992	301343	Heavy				M	













Email tsq@belray.com for information on specialty applications.

#### **CLEAR GEAR LUBRICANT**

APPLICATION

A high-viscosity synthetic hydrocarbon-based open gear lubricant formulated for grinding mill, kiln and other process open gear systems. Provides full fluid film or hydrodynamic lubrication. Completely fluid and freely drains from shrouds and tooth roots. Allows for gear tooth inspections without complete cleaning. Metso Mineral and Outotec approved. Reduces lubricant consumption and gear and pinion temperature. Reduces or eliminates noise and vibration.

#### MOLYLUBE® MILL GEAR COMPOUND



A high-viscosity open gear lubricant designed for mill and process open gears. This product forms a strong tenacious paste-like film, providing maximum protection in the load zone greatly reducing consumption. Contains a volatile solvent that ensures fluidity during application. Contains Molylube® Solids. Meets ANSI/AGMA 9005-E02 specification for minimum viscosity recommendations for open gearing intermittent lubricant application and for gravity feed or forced drip lubrication of open gears. Approved by Metso Minerals.

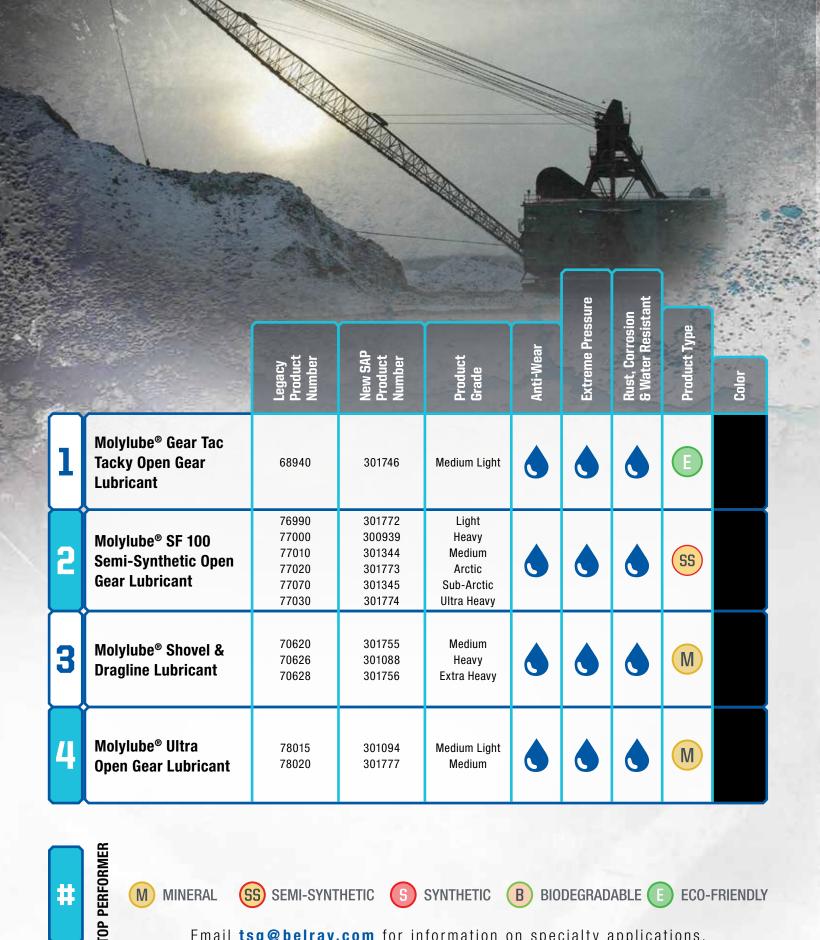


#### MOLYLUBE® MILL GEAR GREASE



An aluminum complex, semi-fluid gear lubricant specifically formulated to provide superior lubrication of Type 2 open gear systems. It provides excellent retention characteristics, yet it drains freely from shrouds and tooth roots. Superior Extreme Pressure, anti-wear and anti-rust capability for extended component life while reducing consumption. Contains Molylube® Solids. Heavy Grade - Metso Minerals approved.

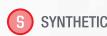






M MINERAL









Email tsq@belray.com for information on specialty applications.



#### MOLYLUBE® GEAR TAC TACKY OPEN GEAR LUBRICANT

LUBRICANT

A high-viscosity paraffinic oil chemically fortified with Molylube® Solids and Extreme Pressure additives. Proprietary polymer technology promotes superior retention properties, minimizing consumption and housekeeping. Maintains lube film in wet conditions. Exceeds all of the open gear lubricant requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of the Joy Global P&H 464 standards for open gear lubricants. Can be applied through a centralized system to temperatures as low as -29°C (-20°F).



#### **MOLYLUBE® SF 100 SEMI-SYNTHETIC OPEN GEAR LUBRICANT**

APPLICATION EP

PRESSURE GREASE

A 20+ year standard from the Bel-Ray OGL lineup but still a state-of-the-art lubricant that excels as a multi-service dragline and shovel lubricant. An aluminum complex grease fortified with Molylube® solids in a semi-synthetic base oil. Excellent Extreme Pressure and anti-wear properties. Proven unsurpassed performance in bushings. Exceeds all of the open gear lubricant requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of Joy Global P&H 464 and 520 standards for open gear and multiservice lubricants. Can be applied through a centralized system to temperatures as low as -50°C (-58°F).



#### MOLYLUBE® SHOVEL & DRAGLINE LUBRICANT



A mineral oil-based, aluminum complex, multi-service lubricant for temperate climates. Perfect for the climates of Africa, Australia, parts of the United States and South America. Contains Molylube® Solids. Provides excellent antiwear and Extreme Pressure properties. Exceeds all of the open gear lubricant requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of the Joy Global P&H 464 standard for open gear lubricants. Can be applied through a centralized system to temperatures as low as -5°C (-23°F).



#### MOLYLUBE® ULTRA OPEN GEAR LUBRICANT



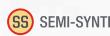
Current state-of-technology for dragline and electric rope shovel open gear lubrication. Exceeds all current standards for Extreme Pressure and anti-wear with a 1000+ kg Four Ball EP Test Weld Load and a 220+ kg Load Wear Index. Excellent film formation and maintenance capabilities. Exceeds all of the open gear lubricant requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of the Caterpillar and Joy Global P&H 464 standards for open gear lubricants.

Moly Gear Tac - Moly Ultra OGL

		Legacy Product Number	New SAP Product Number	Product Grade	Anti-Wear	Extreme Pressure	Rust, Corrosion & Water Resistant	Product Type	Color
1	6 in 1® Multipurpose Lubricant	12300 12310 (Aerosol)	301179 300873 (Aerosol)	3 3				M	
5	Electric Switch Contact Black Grease	54850	301216	100 (Base), NLGI 2				M	
3	Electric Switch Contact White Grease	51100	301532	220/320 (Base), NLGI 2				M	
4	High-Temperature Anti-Seize Compound	44500	301526	68 (Base), NLGI 1				S	



M MINERAL









Email tsq@belray.com for information on specialty applications.



#### 6 IN 1<sup>®</sup> MULTIPURPOSE LUBRICANT

**AEROSOL** 

A high-performance semi-synthetic multipurpose lubricant. The exceptional lubricating and penetrating properties make the removal of frozen fasteners, rusted bolts and fittings fast and easy. Displaces water, cleans as it lubricates and provides excellent rust protection. USDA H2 rated and is highly recommended for protection of electrical contacts and connections in damp environments.



#### **ELECTRIC SWITCH CONTACT BLACK GREASE**



Non-melting, anti-seize paste with PTFE and moly for exceptional low frictional properties and load-carrying ability of sliding surfaces and thread applications. Use will result in break-away torque, a positive measure of its effectiveness. Thermal stability prevents seizing, galling, deterioration and minimizes friction for a long and useful life.



#### **ELECTRIC SWITCH CONTACT WHITE GREASE**



A clean, non-melting anti-seize paste with PTFE for exceptional low frictional properties and load-carrying ability of sliding surfaces and thread applications. Thermal stability prevents seizing, galling, deterioration and minimizes friction for a long and useful life.

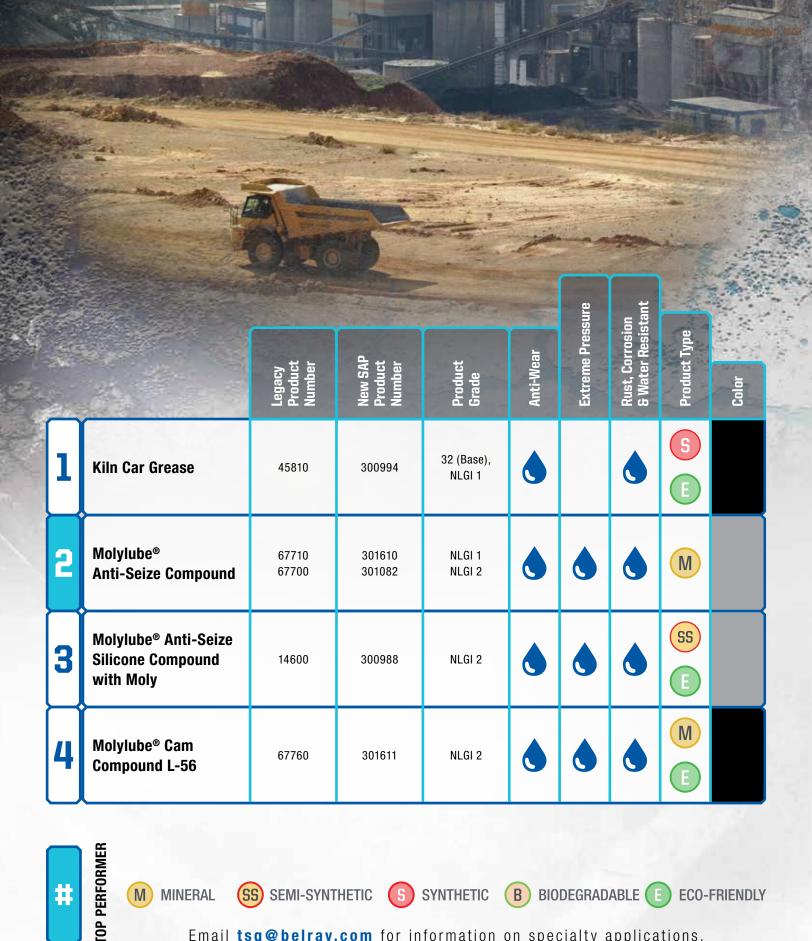


#### **HIGH-TEMPERATURE ANTI-SEIZE COMPOUND**



An outstanding anti-seize and lubricating compound for threaded connections, splines and similar applications where an anti-seize is recommended. Prevents galling, rust, fretting, galvanic pitting, seizure and corrosion. Its unique blend of graphite and copper lubricating solids allows for exceptional performance at both elevated and ambient temperatures. Approximate K-Factor is 0.175 and coefficient of friction is 0.13. Useful temperature range -29°C to 1093°C (-20°F to 2000°F).

20 6 in 1 - High-Temp Anti-Seize **SPECIALTY** 





M MINERAL



SS SEMI-SYNTHETIC S SYNTHETIC B BIODEGRADABLE E ECO-FRIENDLY







Email tsq@belray.com for information on specialty applications.



#### KILN CAR GREASE



A synthetic, high-temperature kiln car lubricating grease containing high-performance graphite capable of lubrication up to 538°C (1000°F).

2 APPLICATION

#### **MOLYLUBE® ANTI-SEIZE COMPOUND**



A non-melting, organoclay grease with 40% of molybdenum disulfide and graphite lubricating solids. An outstanding anti-seize and lubricating compound for threaded connections, splines and similar applications where and anti-seize is recommended. Superb rust/corrosion protection. Approximate K-Factor is 0.1 and coefficient of friction is 0.13.

3

### **MOLYLUBE® ANTI-SEIZE SILICONE COMPOUND WITH MOLY**



Molylube Anti-Seize Silicone Compound with Moly, commonly known as Bel-Ray Molylube 16 Silicone, is an anti-seize compound containing a high percentage of molybdenum disulfide. The base fluid is silicone, which offers excellent highand low-temperature characteristics

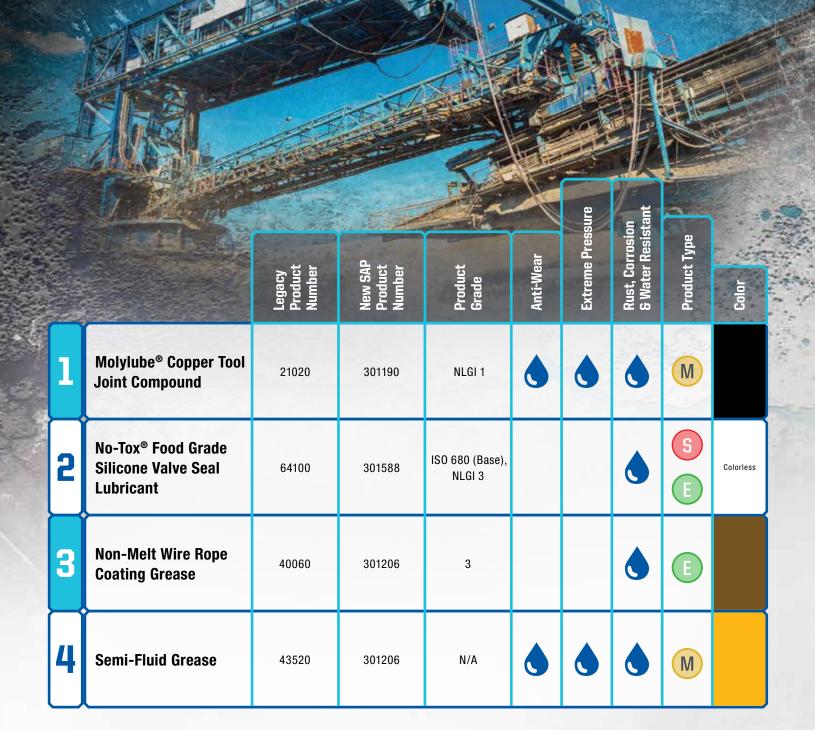


#### MOLYLUBE® CAM COMPOUND L-56

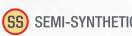


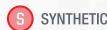
A product formulated to exceed the lubrication requirements of the rolling cam walking system commonly seen on Caterpillar (Bucyrus) walking draglines. A proprietary blend of lubricating solids, EP and anti-wear additive ensure excellent film formation, cam and rail separation and temperature reduction. Low friction properties eliminates vibration and stick-slip. Can be pumped to temperatures as low as -34°C (-30°F) without heat.

**22** Kiln Car Gr. - Moly Cam Comp. L-56

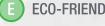












Email tsq@belray.com for information on specialty applications.

APPLICATION

#### MOLYLUBE® COPPER TOOL JOINT COMPOUND

A brushable, aluminum complex grease formulated to lubricate threaded drill pipe connections at 'make-up.' Its adhesive property ensures that the product stays in application during all phases of the drilling operation. Absence of lead, antimony or other heavy metals creates low environmental impact. Excellent rust-prevention properties. Lubricating solids prevent seizing and galling, ensuring easy assembly and disassembly. Resists shrinkage and contains a hydrogensulfide scavanger. Approximate K-Factor is 0.1 and coefficient of friction is 0.12.



## NO-TOX® FOOD GRADE SILICONE **VALVE SEAL LUBRICANT**



A non-melting, smooth, tacky, waterproof, grease-like silicone compound for valves, '0' rings, pump seals, gaskets, meters and gauges. Will not affect rubber, plastic or metal. Unaffected by mild acids, alkalis, alcohol and glycol. Broad useful temperature range -40°C to 260°C (-40°F to 500°F).



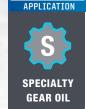
#### NON-MELT WIRE ROPE COATING GREASE



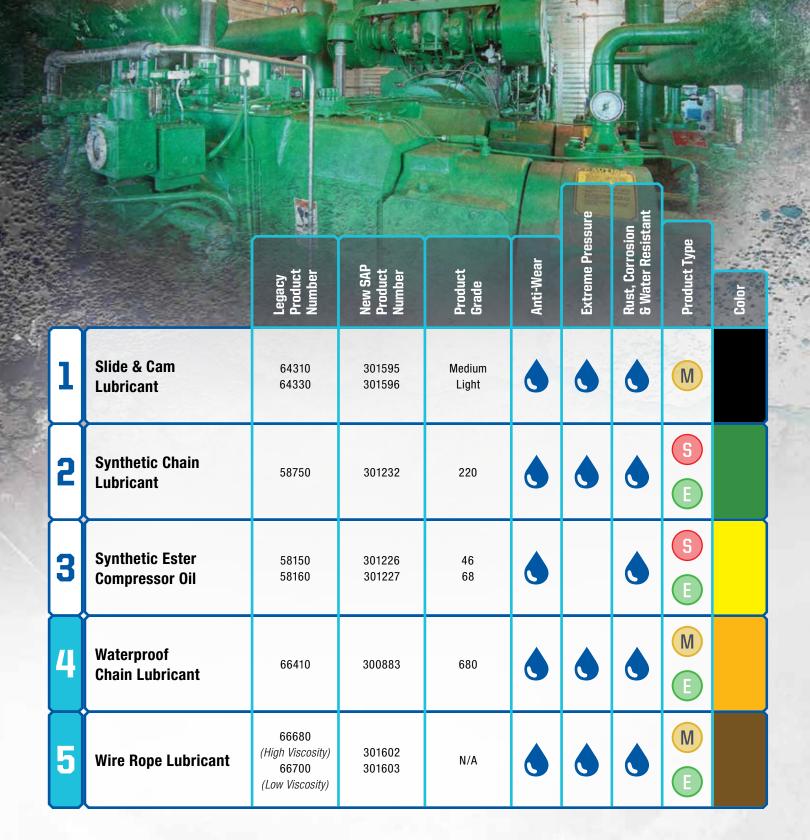
A non-melting grease that is formulated for optimum water resistance, adhesion, mechanical stability, corrosion and oxidation resistance. Forms a barrier film protecting and sealing the rope. Passes the EPA Static Sheen Test. Can be manually applied or with all Clamp-type pressurized lubricators.



#### **SEMI-FLUID GREASE**



A semi-fluid aluminum complex lubricant that provides superior water repellence and heat resistance while remaining stable to protect against severe shock loads. For use in semi-enclosed or leaky gear cases. This lubricant is rheopectic (shear thickening) to control leakage. Exceptional Extreme Pressure properties.















Email tsq@belray.com for information on specialty applications.



DRAGLINE

**CAM & SLIDE** 

#### **SLIDE & CAM LUBRICANT**

A product specifically formulated to exceed the requirements of Bucyrus 2500W Series dragline cam and slide propel mechanism. Its exceptional Extreme Pressure and low friction properties provide protection for plain bearings and sliding surfaces while reducing metal-to-metal contact and minimizing component wear under the most severe operating conditions, thereby extending component life. Its unique mechanical stability maintains the necessary viscosity even under high-load and high-shear conditions.



#### SYNTHETIC CHAIN LUBRICANT



A superb synthetic ester chain lubricant designed for Extreme Pressure and high temperature applications. Useful temperature range -23°C (-10°F) to 204°C (400°F).



#### SYNTHETIC ESTER COMPRESSOR OIL



A high performance, ester-based compressor lubricant. Excellent water separation and anti-wear properties. Low residue formation and high solvency eliminate deposits. Suitable for rotary screw and vane and reciprocating units.



#### WATERPROOF CHAIN LUBRICANT



A heavy-duty, long-lasting lubricant for chains especially in wet environments. Exceptional Extreme Pressure and anti-wear properties protect chain components in the severest service. Available in bulk and Aerosol.



#### **WIRE ROPE LUBRICANT**



A specially formulated penetrating lubricant for wire ropes. Can be applied directly onto wet ropes while providing excellent adhesive properties, reducing consumption. Prevents inner strand corrosion and rubbing wear. It is an allseason product that does not require change of grades as temperatures fluctuate. Applicable manually or through most automatic lube systems. Useful temperature range -46°C to 60°C (-50°F to 140°F).

ISO 150       Drum 30169215000         ISO 220       264 Gal Tote 30119         ISO 320       Drum 30119615000         ISO 460       Drum 30119715000         ISO 680       264 Gal Tote 30169         ISO 1000       264 Gal Tote 30169         BIODEGRA       NLGI 2         Keg 301544150014       Keg 301544150014         Medium       Drum 30168815000         Standard       Drum 30168915000         NLGI 2       Pail 301216150025         NLGI 2       Pail 301532150025         SAE 15W-40       Drum 301054150002         NLGI 1       Pail 301526150025         NLGI 1       Drum 30099415000	7 5150340 7 7 8150340 3150340 6 IN 1® 7 ADABLE MU C 12	Drum 301195150007  Drum 301198150007  Drum 301693150007  MULTIPURPOSE LUB Aerosol 300873150285  JLTIPURPOSE EXTREM	RICANT IE PRESSU		13 13 13 13 13 13
ISO 220  ISO 320  Drum 30119615000  ISO 460  Drum 30119715000  ISO 680  264 Gal Tote 30119  ISO 1000  264 Gal Tote 30169  BIODEGR  NLGI 2  Keg 301544150014  Medium  Drum 30168815000  Standard  Drum 30168915000  NLGI 2  Pail 301216150025  NLGI 2  Pail 301532150025  NLGI 1  Pail 301526150025	5150340 7 7 8150340 3150340 6 IN 1 <sup>®</sup> 7 ADABLE MU	Drum 301198150007 Drum 301693150007  MULTIPURPOSE LUB Aerosol 300873150285 ULTIPURPOSE EXTREM	IE PRESSU	IRE GREASE	13 13 13 13 13
ISO 320 Drum 301196150000 ISO 460 Drum 301197150000 ISO 680 264 Gal Tote 30169 ISO 1000 264 Gal Tote 30169  BIODEGRA NLGI 2 Keg 301544150014  Medium Drum 301688150000 Standard Drum 301689150000  NLGI 2 Pail 301216150025  NLGI 2 Pail 301532150025  SAE 15W-40 Drum 301054150000  NLGI 1 Drum 300994150000	7 7 8150340 3150340 <b>6 IN 1</b> ® 7 <b>ADABLE MU</b> C	Drum 301198150007 Drum 301693150007  MULTIPURPOSE LUB Aerosol 300873150285 ULTIPURPOSE EXTREM	IE PRESSU	IRE GREASE	13 13 13 13 21
ISO 460	7 8150340 3150340 <b>6 IN 1®</b> 7 <b>ADABLE MU</b> C	Drum 301693150007  MULTIPURPOSE LUB  Aerosol 300873150285  ULTIPURPOSE EXTREM	IE PRESSU	IRE GREASE	13 13 13 21
ISO 680 ISO 1000 ISO	8150340 3150340 6 IN 1 <sup>®</sup> 7 ADABLE MU C	Drum 301693150007  MULTIPURPOSE LUB  Aerosol 300873150285  ULTIPURPOSE EXTREM	IE PRESSU	IRE GREASE	13 13 21
3	3150340 6 IN 1® 7 ADABLE MU C	Drum 301693150007  MULTIPURPOSE LUB  Aerosol 300873150285  ULTIPURPOSE EXTREM	IE PRESSU	IRE GREASE	13
3	6 IN 1º 7 Adable Mu C	MULTIPURPOSE LUB  Aerosol 300873150285  ULTIPURPOSE EXTREN	IE PRESSU	IRE GREASE	21
NLGI 2   Keg 301544150014	7 Adable Mu C 12	Aerosol 300873150285  JLTIPURPOSE EXTREN	IE PRESSU	IRE GREASE	
NLGI 2   Keg 301544150014	ADABLE MU C	ILTIPURPOSE EXTREN		IRE GREASE	
NLGI 2         Keg 301544150014           Medium         Drum 30168815000           Standard         Drum 30119315000           Heavy         Drum 30168915000           NLGI 2         Pail 301216150025           SAE 15W-40         Drum 30105415000           NLGI 1         Pail 301526150025           NLGI 1         Drum 30099415000           MOLY	<b>C</b> 2			IRE GREASE	
Medium Drum 30168815000 Standard Drum 301193150000 Heavy Drum 301689150000  NLGI 2 Pail 301216150025  NLGI 2 Pail 301532150025  SAE 15W-40 Drum 301054150000  NLGI 1 Pail 301526150025	5	LEAR GEAR LUBRICAN			_
Standard         Drum 30119315000           Heavy         Drum 30168915000           NLGI 2         Pail 301216150025           NLGI 2         Pail 301532150025           SAE 15W-40         Drum 30105415000           NLGI 1         Pail 301526150025           NLGI 1         Drum 30099415000           MOLY	5	LEAR GEAR LUBRICAN			5
Standard         Drum 30119315000           Heavy         Drum 30168915000           NLGI 2         Pail 301216150025           NLGI 2         Pail 301532150025           SAE 15W-40         Drum 30105415000           NLGI 1         Pail 301526150025           NLGI 1         Drum 30099415000           MOLY	2		TT		
Heavy Drum 301689150000  NLGI 2 Pail 301216150025  NLGI 2 Pail 301532150025  SAE 15W-40 Drum 301054150000  INLGI 1 Pail 301526150025  NLGI 1 Drum 300994150000  MOLY					17
NLGI 2 Pail 301216150025  NLGI 2 Pail 301532150025  SAE 15W-40 Drum 30105415000  INLGI 1 Pail 301526150025  NLGI 1 Drum 30099415000  MOLY					17
NLGI 2 Pail 301216150025  NLGI 2 Pail 301532150025  SAE 15W-40 Drum 30105415000  INLGI 1 Pail 301526150025  NLGI 1 Drum 30099415000  MOLY	5				17
NLGI 2 Pail 301532150025  SAE 15W-40 Drum 30105415000  INLGI 1 Pail 301526150025  NLGI 1 Drum 30099415000  MOLY	ELECTRIC S	SWITCH CONTACT BLA	ACK GREAS	SE	
NLGI 2 Pail 301532150025  SAE 15W-40 Drum 30105415000  INLGI 1 Pail 301526150025  NLGI 1 Drum 30099415000  MOLY					21
SAE 15W-40 Drum 30105415000  I  NLGI 1 Pail 301526150025  NLGI 1 Drum 30099415000  MOLY	ELECTRIC S	SWITCH CONTACT WH	ITE GREAS	SE	
NLGI 1 Pail 301526150025  NLGI 1 Drum 30099415000  MOLY		Keg 301532150013			21
NLGI 1 Pail 301526150025  NLGI 1 Drum 30099415000  MOLY	HEAV	Y-DUTY DIESEL ENGI	NE OIL		
NLGI 1 Pail 301526150025  NLGI 1 Drum 30099415000  MOLY	7				13
NLGI 1	IIGH TEMP	ERATURE ANTI-SEIZE	COMPOU	ND	
MOLY					21
MOLY		KILN CAR GREASE			
	12				23
NI CT 0 Flori-Pos Tota 2010	LUBE® 3%	MOLY EXTREME PRES	SURE GRE	ASE LC	
NLUI U FIEXI-DAY IULE SUIL	84150526				5
NLGI 1 Flexi-Bag Tote 3008	85150526	Lined Drum 3008851500	104		5
NLGI 2 Lined Drum 301613	150004				5
MOLY	LUBE® 5%	MOLY EXTREME PRES	SURE GRE	ASE AC	
NLGI O Flexi-Bag Tote 3017	53150526	Spacekraft Tote 301750	150335	Lined Drum 301753150004	5
NLGI 1 3000 lb Tote 30088	6150330	Flexi-Bag Tote 3008861	50526	Lined Drum 300886150004	5
NLGI 2 Drum 30093615000	12				5
MOLY	LUBE® 5%	MOLY EXTREME PRES	SURE GRE	ASE LC	
NLGI 1 Flexi-Bag Tote 3016	12150526				5
NLGI 2 Flexi-Bag Tote 3010	83150526				5
	OLYLUBE®	87M EXTREME PRESS	SURE GRE	\SE	
NLGI O Lined Drum 301187	150004				7

	MOLYLI	JBE® ANTI-SEIZE COMPOUND	Sec
NLGI 1	Pail 301610150025		23
NLGI 2	Pail 301082150025	Caulking Cartridge 301082150251	23
	MOLYLUBE® ANTI-	GEIZE SILICONE COMPOUND WITH MOLY	
NLGI 2	<b>10 oz Brush Top</b> 300988150260		23
		.UBE® CAM COMPOUND L-56	
NLGI 2	Drum 301611150002		23
	MOLYLUBE®	COPPER TOOL JOINT COMPOUND	
NLGI 1	Pail 301190150025		25
	MOLYLUBE®	EXTREME PRESSURE GREASE AC	
NLGI 1	Lined Drum 301201150004		7
NLGI 2	Drum 301696150002	Cartridge 301696150230	7
	MOLYLUBE® EXTRE	ME PRESSURE HIGH VISCOSITY GREASE	
NLGI 1	Lined Drum 301679150004		7
NLGI 2	Lined Drum 301682150004		7
	MOLYLUBI	® HIGH TEMPERATURE GREASE	
NLGI 1	<b>Cartridge</b> 301184150230		9
	MOLYLUBE® GEA	R TAC TACKY OPEN GEAR LUBRICANT	
Medium Light	Lined Drum 301746150004		19
	MOLYLUBE® LOW-	TEMPERATURE MULTIPURPOSE GREASE	
NLGI 1	Flexi-Bag Tote 301042150526	Lined Drum 301042150004	9
	MOLYL	UBE® MILL GEAR COMPOUND	
N/A	<b>Lined Drum</b> 301771150004		17
		LUBE® MILL GEAR GREASE	
Heavy	Drum 301343150002		17
	MOLYLUBE® MULTIPURP	OSE EXTREME PRESSURE GREASE WITH MOLY	
NLGI 1	Drum 301524150002	Lined Drum 301524150004	9
NLGI 2	Flexi-Bag Tote 301209150526	Lined Drum 301209150004	9
	MOLYLUBE® SF100 S	EMI-SYNTHETHIC OPEN GEAR LUBRICANT	
Light		Bag Tote         Drum 301772150002         Lined Drum 301772150004	19
Medium	Lined Drum 301344150004	Caulking Cartridge 301344150251	19
Heavy	Drum 300939150002		19
Ultra Heavy	Spacekraft Tote 301774150335	Drum 301774150002	19
Arctic	Flexi-Bag Tote 301773150526	Drum 301773150002	19
Sub-Arctic	<b>3000 lb Tote</b> 301345150325	Flexi-Bag Tote 301345150526	19
	MOLYLUBE®	SHOVEL & DRAGLINE LUBRICANT	
Medium	Drum 301755150002		19
Heavy	Spacekraft Tote 301088150335		19
Extra Heavy	Spacekraft Tote 301756150335		19

28 PRODUCT & PACKAGING INDEX 29

	MOLYLUBE®	ULTRA OPEN GEAR LUBRICANT	
Medium Light	Spacekraft Tote 301094150335	Lined Drum 301094150004	19
Medium	Lined Drum 301777150004		19
	NO-TOX® FOOD GRA	DE SILICONE VALVE SEAL LUBR	RICANT
NLGI 3	Pail 301588150025	1 Gal Pail 301588150020	25
	NON-MELT	WIRE ROPE COATING GREASE	
3	Pail 301206150025		25
	RAYLENE ASHLES	S MULTI-VISCOSITY HYDRAULI	C OIL
46	<b>264 Gal Tote</b> 300938150340	Drum 300938150007	13
	RAYLEN	E EXTREME PRESSURE OIL	
ISO 1000	<b>Drum</b> 301334150007		15
	RAY	LENE HYDRAULIC FLUID	
68	<b>5 Gal Tin Can</b> 301784150023		15
	!	SEMI-FLUID GREASE	
N/A	Pail 301212150025		25
	SL	IDE & CAM LUBRICANT	
Light	Flexi-Bag Tote 301596150526		27
Medium	Flexi-Bag Tote 301595150526		27
	SYNT	HETIC CHAIN LUBRICANT	
220	Drum 301232150007		27
	SYNTHEI	IC ESTER COMPRESSOR OIL	
46	Pail 301226150025		27
68	<b>Drum</b> 301227150007		27



A Part of the				
		SYNTHETIC GEAR OIL		
ISO 220	Drum 301321150007			15
ISO 320	<b>264 Gal Tote</b> 301605150340	Drum 301605150007		15
ISO 460	<b>Drum</b> 301606150007			15
ISO 680	<b>264 Gal Tote</b> 301607150340	<b>Drum</b> 301607150007		15
ISO 1000	<b>Drum</b> 301608150007			15
	TERMALENE®	HEAVY-DUTY CONSTRUCTION	N GREASE	
NLGI 2	Drum 301338150002	Cartridge 301338150230		11
	TERMALENE® MUL	TIPURPOSE EXTREME PRES	SURE GREASE	
NLGI 1	Lined Drum 301765150004			11
NLGI 2	Lined Drum 301091150004	Cartridge 301091150230		11
	WAT	ERPROOF CHAIN LUBRICANT		
680	Aerosol 300883150285			27
		WATERPROOF GREASE		
NLGI 2	Drum 301293150002	Cartridge 301293150230	<b>16 oz Tub</b> 301293150225	11
		WIRE ROPE LUBRICANT		
High Viscosity	<b>264 Gal Tote</b> 301602150340	Drum 301602150007		27
Low Viscosity	Pail 301603150025			27

30 PRODUCT & PACKAGING INDEX





2780 WATERFRONT PKWY. E. DR. | INDIANAPOLIS, IN | 46214 USA

TEL +1-317-328-5660 CUSTOMERSERVICE@BELRAY.COM FAX +1-732-938-4232