



Molylube® 3% Moly Extreme Pressure Grease LC

PRODUCT DESCRIPTION

Bel-Ray® Molylube® 3% Moly Extreme Pressure Grease LC is a high performance, lithium complex grease containing 3% molybdenum disulfide as required by many off-highway equipment OEMs. The inherent properties of the lithium complex thickener and the proprietary chemical system utilized in Molylube 3% Moly Extreme Pressure Grease LC yield a grease with exceptional mechanical and thermal stability, excellent anti-wear and extreme pressure properties, unsurpassed rust and corrosion protection and resistance to water.

PRODUCT FEATURES

- Water resistance
- Rust and corrosion protection
- Anti-wear and Extreme Pressure properties
- 3% Molybdenum Disulfide
- Mechanical and thermal stability

BENEFITS

- Maximizes bearing retention in wet environments.
- Eliminates rust and corrosion damage to bearings operating in harsh environments.
- Maximizes component useful life helping to reduce replacement part costs and lost production time.
- “Moly” powder at an effective level recommended by most off-highway equipment OEMs.
- Exceptional mechanical stability and high dropping point surpass most competitive high-performance greases.

APPLICATIONS

- Dragline and shovel main machinery bearings, crawler pins and bushings, bucket pins
- Process machinery and general plant lubrication, low to medium speed anti-friction bearings, plain bearings
- Manual or automatic lubrication of rolling stock chassis, articulated joints and run-of-the-mine vehicles

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PRODUCT DATA

Typical Properties				
Property	Test Method	NLGI Grade 0	NLGI Grade 1	NLGI Grade 2
Thickener Type		Lithium Complex	Lithium Complex	Lithium Complex
Worked Penetration @ 25°C, 60 strokes (0.1 mm)	ASTM D217	370	325	280
Base Fluid Viscosity @ 40°C (cSt)	ASTM D445	150.0	220.0	220.0
Base Fluid Viscosity @ 100°C (cSt)	ASTM D445	13.5	15.4	15.4
Dropping Point, °C (°F)	ASTM D2265	206 (403)	211 (412)	221 (430)
Copper Corrosion, 3 h @ 100°C (Rating)	ASTM D4048	1b	1b	1b
Water Washout @79°C (175°F), % loss	ASTM D1264	9.5	3.7	2.2
Lubricating Solids Type		MoS ₂	MoS ₂	MoS ₂
Lubricating Solids (Wt %)		3	3	3
4-Ball EP Test, Weld Load (kgf)	ASTM D2596	800	800	800
4-Ball EP Test, Load-Wear Index (kgf)	ASTM D2596	133	133	133
4-Ball Wear Test, @ 1200 rpm, 40 kgf, 60 min, 75°C Scar Diameter (mm)	ASTM D2266	0.57	0.55	0.57
Pumpability, Lincoln Ventmeter, from 1800 psi		-18°C <30 Sec.	-10°C <30 Sec.	0°C <30 Sec.
Corrosion Preventive Properties	ASTM D1743	Pass	Pass	Pass
EMCOR Rust Protection, rating, Distilled Water	ASTM D6138	0,0	0,0	0,0
Useful Temperature Range, °C (°F)		-34 to 150 (-29 to 302)	-28 to 177 (-18 to 350)	-20 to 177 (-4 to 350)
Color		Gray	Gray	Gray

HEALTH and SAFETY

Health and safety recommendations for products can be found on the Safety Data Sheet (SDS) at www.belray.com