



Molylube® Multipurpose EP Grease

PRODUCT DESCRIPTION

Bel-Ray® Molylube® Multipurpose Extreme Pressure Grease is an anti-friction bearing grease fortified with Molylube Solids for effective heavy-duty service. It provides outstanding mechanical and thermal stability to withstand shock and heavy loading found in severe environments of mining, construction and process industries. In addition, it offers exceptional water washout resistance, rust and corrosion protection, and exhibits good cohesive and adhesive characteristics. NLGI Grade 1 meets the requirements of Caterpillar (Bucyrus International) SD4711 specification for multipurpose grease.

PRODUCT FEATURES and BENEFITS

- Molybdenum disulfide and graphite lubricating solids reduce friction for extended component life
- Provides exceptional rust and corrosion protection, while remaining non-corrosive to ferrous and non-ferrous metals.
- Outstanding oxidation resistance increases the working life of the lubricant
- Exhibits excellent metal adhesion, preventing separation and maintaining consistency to allow extended lubrication intervals.
- Enhanced extreme pressure and anti-wear properties maximizing component useful life, helping to reduce replacement part costs and lost production time.

APPLICATIONS

Bel-Ray Molylube Multipurpose Extreme Pressure Grease is recommended for general plant and mining equipment lubrication. This includes:

- Mining - general machinery bearings on draglines, shovels and drills, rails and rollers, and general chassis lubrication of mobile equipment (including electric wheel motor seals)
- General plant lubrication, anti-friction, ball and roller bearings, bushings, chassis, slides, screws and ways
- Applications can be made manually or by automatic dispensing systems to a minimum ambient temperature of -10°C (14°F)

DISTRIBUTED BY:
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PRODUCT DATA

Typical Properties			
Property	Test Method	NLGI Grade 1	NLGI Grade 2
Thickener Type		Aluminum Complex	Aluminum Complex
Worked Penetration @ 25°C, 60 strokes (0.1 mm)	ASTM D217	325	280
Base Fluid Viscosity @ 40°C (cSt)	ASTM D445	220	220
Base Fluid Viscosity @ 100°C (cSt)	ASTM D445	19.3	19.3
Dropping Point, °C (°F)	ASTM D2265	266 (511)	268 (514)
Mechanical Stability, Penetration Change After 10,000 Strokes (%)	ASTM D217	6.4	5.0
Pumpability, Lincoln Ventmeter, from 1800 psi			
@ Room Temperature, ~25°C (psi)		100	175
@ -1°C (psi)		225	500
@ -18°C (psi)		725	1200
Lubricating Solids Type		Molyube Solids	Molyube Solids
Water Washout @79°C (175°F), % loss	ASTM D1264	4.9	4
4-Ball EP Test, Weld Load (kgf)	ASTM D2596	400	400
4-Ball EP Test, Load-Wear Index (kgf)	ASTM D2596	65	65
4-Ball Wear Test, @ 1200 rpm, 40 kgf, 60 min, 75°C Scar Diameter (mm)	ASTM D2266	0.45	0.45
Corrosion Preventive Properties	ASTM D1743	Pass	Pass
Color		Black	Black

HEALTH and SAFETY

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

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