



Molylube[®] 5% Moly Extreme Pressure Grease AC

PRODUCT DESCRIPTION

Bel-Ray[®] Molylube[®] 5% Moly Extreme Pressure Grease AC is an aluminum complex grease fortified with exceptional Extreme Pressure properties and 5% moly as required by many off-highway equipment manufacturers. Molylube 5% Moly Extreme Pressure Grease AC is formulated to be used in the centralized lubricating systems of rolling stock, haulage trucks and other applications requiring an Extreme Pressure grease with 5% moly. Molylube 5% Moly Extreme Pressure Grease AC is available in NLGI Grades 0, 1 and 2 with two subdivisions of the NLGI Grade 0 based on base oil viscosities of ISO VG 46 and 150.

Molylube 5% Moly Extreme Pressure Grease AC is a heavy duty aluminum complex grease with exceptional Extreme Pressure properties and 5% moly. Molylube 5% Moly Extreme Pressure Grease AC is recommended for applications where the OEM requires 5% moly.

PRODUCT FEATURES and Benefits

- Shear Stable The aluminum complex thickening system is mechanically stable. Retains its consistency in severe, heavy-duty applications.
- 5% moly Controls friction providing superior protection in boundary conditions. Meets or exceeds most OEM requirements for greases containing 5% moly.
- Extreme Pressure and anti-wear properties Maximizes component useful life helping to reduce replacement part costs and lost production time.
- All-season Two NLGI 0 grades for automatic dispensing in all climates, ranging from -38°C (-36°F) to 79°C (175°F)

APPLICATIONS

- Mining and construction equipment – anti-friction and plain bearings, bucket pins/bushings, slew bearings for draglines, shovels, hydraulic excavators, rolling stock and haulage equipment
- Any application that requires an Extreme Pressure grease with 5% moly
- Where automatic lubrication systems are used for general purpose grease applications

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PRODUCT DATA

Typical Properties					
Property	Test Method	NLGI Grade 0 ISO 46	NLGI Grade 0 ISO 150	NLGI Grade 1	NLGI Grade 2
Thickener Type		Aluminum Complex	Aluminum Complex	Aluminum Complex	Aluminum Complex
Worked Penetration @ 25°C, 60 strokes (0.1 mm)	ASTM D217	370	370	325	280
Base Fluid Viscosity @ 40°C (cSt)	ASTM D445	49.9	150.0	222.0	222.0
Base Fluid Viscosity @ 100°C (cSt)	ASTM D445	8.15	14.5	18.5	18.5
Dropping Point, °C (°F)	ASTM D2265	243 (469)	249 (480)	261 (502)	262 (504)
Copper Corrosion, 3 h @ 100°C (Rating)	ASTM D4048	1b	1b	1b	1b
Pumpability, Lincoln Ventmeter, from 1800 psi to 600 psi, °C (°F)		-38 (-36)	-18 (0)	-10 (14)	-4 (25)
Water Washout @79°C (175°F), % loss	ASTM D1264	12.5	11.0	5.5	4.5
4-Ball EP Test, Weld Load (kgf)	ASTM D2596	620	800	800	800
4-Ball EP Test, Load-Wear Index (kgf)	ASTM D2596	92	135	135	135
4-Ball Wear Test, @ 1200 rpm, 40 kgf, 60 min, 75°C Scar Diameter (mm)	ASTM D2266	0.60	0.50	0.46	0.55
Timken EP Test, OK Load (lbs)	ASTM D2509	27.2 (60)	27.2 (60)	27.2 (60)	27.2 (60)
Lubricating Solids Type		Molybdenum Disulfide	Molybdenum Disulfide	Molybdenum Disulfide	Molybdenum Disulfide
Lubricating Solids (Wt %)		5	5	5	5
EMCOR Rust Protection, rating, Distilled Water	ASTM D6138	0/0	0/0	0/0	0/0
Color		Gray	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