

Semi-Fluid Grease

PRODUCT DESCRIPTION

Bel-Ray® Semi-Fluid Grease, commonly known as Bel-Ray MA-1500 Heavy, is an adhesive, semi-fluid lubricant, ideal for enclosed gears where poor sealing or leakage is unacceptable. Semi-Fluid Grease is extremely effective in general purpose lubrication of bearings or sliding surfaces where a higher degree of retention is desired. Unlike most gear lubricants, Semi-Fluid Grease will increase in viscosity during use, maximizing retention in hard-to-lubricate bearings and minimizing leakage from gear cases with faulty seals. The Extreme Pressure and anti-corrosion properties of Semi-Fluid Grease will continue to provide the protection needed in the harshest working conditions.

Semi-Fluid Grease is not recommended for circulation systems or where upper bearings depended on splash lubrication. For effective lubrication of upper bearings fill gear cases to halfway up the highest bearing or gear in the case.

PRODUCT FEATURES

- Control oil leakage
- Excellent retention
- Heat resistant

BENEFITS

- Reduces or stops oil leakage when repairs cannot be immediately performed
- Retains its properties and consistency, extending lubrication cycles and reducing consumption
- Effective general-purpose lubrication to temperatures in excess of 204°C (400°F) without thinning

APPLICATIONS

- Enclosed gear reducers and drives where surging stress and vibration inevitably produce some degree of leakage
- Anti-friction and journal bearings requiring a greater degree of retention for proper lubrication
- Alternative to heavy greases through an automatic lubrication system where multiple and/or long lube lines prevent proper lubrication
- Sliding surfaces, linkages and sleeves requiring low friction, high load protection

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PRODUCT DATA

Typical Properties		
Property	Test Method	NLGI Grade 000
Thickener Type		Aluminum Complex
Apparent Viscosity @ 25°C, (cP)	ASTM D2196	5500
Base Fluid Viscosity @ 40°C (cSt)	ASTM D445	257
Base Fluid Viscosity @ 100°C (cSt)	ASTM D445	20.5
Copper Corrosion, 3 h @ 100°C (Rating)	ASTM D4048	1b
Falex Pin & Vee Block Test Method B, non seizure load (lbf)	ASTM D3233	3,500
4-Ball EP Test, Weld Load (kgf)	ASTM D2596	400
Timken EP Test, OK Load (lbs)	ASTM D2509	20.4 (45)
Flash Point, °C (°F)	ASTM D92	270 (518)
Color		Medium Brown

HEALTH and SAFETY

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