



PRODUCT DATA SHEET



SEMI-FLUID GREASE

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.

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

Features and Benefits

- | | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| ◆ Control oil leakage | Reduces or stops oil leakage when repairs cannot be immediately performed. |
| ◆ Excellent retention | Retains its properties and consistency, extending lubrication cycles and reducing consumption. |
| ◆ Heat resistant | Effective general purpose lubrication to temperatures in excess of 204°C (400°F) without thinning. Extends lubricants serviceability. |

General Description

Semi-Fluid Grease is a semi-fluid aluminum complex lubricant designed for use in leaking gear cases and in bearings where oil retention is difficult. In gear cases, filtration of **Semi-Fluid Grease** is not recommended. **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 half way up the highest bearing or gear in the case.

Product No. 301212

SEMI-FLUID GREASE
TYPICAL PROPERTIES

<u>Product No.</u>	<u>301212</u>
<u>Old Product No.</u>	<u>43520</u>
NLGI Grade	000
Apparent Viscosity (Brookfield), ASTM D2196 @ 25°C (77°F), cP	5500
Thickener Type	Aluminum Complex
Viscosity (Base Fluid), ASTM D445 @ 40°C, cSt	257
@ 100°C, cSt	20.5
Viscosity (Base Fluid), ASTM D2161 @ 100°F, SUS	1365
@ 210°F, SUS	104
Copper Strip Corrosion, ASTM D130 3 hrs @ 100°C, rating	1b
Falex EP Test, ASTM D3233 Method B Non-seizure Load, lbf	3500
4-Ball EP Test, ASTM D2596 Weld Load, kg	400
Timken EP Test, ASTM D2509 OK Load, kg (lb)	20.4 (45)
Flash Point (Base Fluid), ASTM D92 °C	270
(°F)	518
Color	Medium Brown