

# PRODUCT DATA SHEET



## **MOLYLUBE® SHOVEL AND DRAGLINE LUBRICANT**

**Molylube Shovel and Dragline Lubricant** is a solvent-free, multi-service lubricant for use on large mining machinery. **Molylube Shovel and Dragline Lubricant** combines Bel-Ray's aluminum complex grease, lubricating solids and Extreme Pressure technologies to provide a stable and durable lubricant and maximum machine protection. **Molylube Shovel and Dragline Lubricant** is suitable for use on all walking draglines and electric rope shovels. **Molylube Shovel and Dragline Lubricant** meets or exceeds the performance requirements of the Komatsu P&H 464 Version 10.0 Specification for Open Gear Lubricants

#### **Applications**

- Draglines open gears, plain bearings, rollers and rails, and some propel mechanisms
- Shovels open gears, plain bearings, dipper sticks and handles, rollers and rails, and lower works

#### Features and Benefits

٠	Environmentally friendly	Contains no volatiles or toxic heavy metals.			
•	Multi-service function	A single lubricant that can provide superior protection in a wide range of shovel and dragline applications from open gears to plain bearings, rollers and rails and shovel dipper sticks and handles.			
•	Reduced consumption	Lubrication costs, including disposal and housekeeping, are reduced.			
•	Anti-wear and Extreme Pressure properties	Maximizes component useful life helping to reduce replacement-part costs and lost production time.			
•	Exceptional retention properties	Stays where it is put and will not be displaced from working surfaces by impact, wiping or water washout.			

#### **General Description**

**Molylube Shovel and Dragline Lubricant** is a mineral oil based, aluminum complex multiservice lubricant for use on draglines, shovels, blasthole drills and other heavy industrial applications. A proprietary Bel-Ray film stabilizer promotes film formation, adhesion and retention. Synergy between the product's chemical system and lubricating solids maximizes machine component protection even under the most severe conditions.

### Product No. 301755, 301088, 301756

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## **MOLYLUBE® SHOVEL AND DRAGLINE LUBRICANT**

TYPICAL PROPERTIES

Product No.	<u>301755</u>	<u>301088</u>	<u>301756</u>
<u>Old Product No.</u>	<u>70620</u>	<u>70626</u>	<u>70628</u>
Bel-Ray Name Grade	Medium	Heavy	Extra Heavy
NLGI Grade	0	0	0
Penetration, unworked (60 strokes), ASTM D217 mm/10	370	370	370
Thickener Type	Aluminum Complex	Aluminum Complex	Aluminum Complex
Viscosity, (Base Fluid), ASTM D445 @ 40°C, cSt @ 100°C, cSt	713 41.3	1860 69	3650 118
Viscosity Index (Base Fluid), ASTM D2270	97	90	100
Pumpability, Lincoln Ventmeter, from1800 psi @ room temperature, ~25°C (~77°F), psi @ -1°C ( 30°F), psi @ -18°C ( 0°F), psi @ 1000 psi, °C (°F)	132 260 1420 -12 (10)	100 850  -5 (23)	150 1400  5 (41)
4-Ball EP Test, ASTM D2596 Weld Load, kg Load Wear Index, kg	>800 147	>800 137	>800 132
4-Ball Wear Test, ASTM D2266 @ 1200 rpm, 40 kg, 1 hr, 75℃ Scar Diameter, mm	0.52	0.52	0.52
U.S. Steel Mobility Test, flow rate, grams/second @ 25°C ( 77°F) @ -1°C ( 30°F) @ -18°C ( 0°F)	2.54 0.309 0.02	0.90 0.04 	0.74 0.02
Useful Temperature Range °C (°F)	-12 to 121 (10 to 250)	-1 to 121 (30 to 250)	10 to 121 (50 to 250)
Texture	Tacky	Tacky	Tacky
Color	Black	Black	Black
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