



Molylube[®] Shovel and Dragline Lubricant

PRODUCT DESCRIPTION

Bel-Ray[®] 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. It is suitable for use on all walking draglines and electric rope shovels. Synergy between the product's chemical system and lubricating solids maximizes machine component protection even under the most severe conditions. Molylube Shovel and Dragline Lubricant meets or exceeds the performance requirements of the Komatsu P&H 464 Specification for Open Gear Lubricants.

PRODUCT FEATURES and BENEFITS

- Environmentally friendly lubricant that do not contain solvents or toxic heavy metals.
- Multi-service functional lubricant that provides superior protection in a wide range of shovel and dragline applications.
- Reduced consumption that allows for less lubrication, disposal, and housekeeping costs.
- Enhanced anti-wear and extreme pressure properties that maximizes component useful life, reducing replacement part costs and lost production time.
- Exceptional retention properties to ensure the lubricants stays where it is put and will not be displaced from working surfaces by impact, wiping, or water washout.

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

DISTRIBUTED BY:
Calumet Branded Products, LLC
1060 N Capitol Ave
Suite 6-401
Indianapolis, IN 46204
Technical Services: 317-328-5660
www.belray.com

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PRODUCT DATA

Typical Properties			
Property	Test Method	Medium	Heavy
NLGI Grade		0	0
Thickener Type		Aluminum Complex	Aluminum Complex
Texture		Tacky	Tacky
Worked Penetration (mm/10)	ASTM D217	370	370
Base Fluid Viscosity @ 40°C (cSt)	ASTM D445	713	1860
Base Fluid Viscosity @ 100°C (cSt)	ASTM D445	41.3	69
Base Fluid Viscosity Index	ASTM D2270	97	90
4-Ball EP Test, Weld Load (kgf)	ASTM D2596	> 800	> 800
4-Ball EP Test, Load-Wear Index (kgf)	ASTM D2596	147	137
4-Ball Wear Test, @ 1200 rpm, 40 kgf, 60 min, 75°C Scar Diameter (mm)	ASTM D2266	0.52	0.52
Pumpability, Lincoln Ventmeter, from 1800 psi @ Room Temperature, ~25°C (psi)		132	150
@ -1°C (psi)		260	1400
@ -18°C (psi)		1420	--
U.S. Steel Grease Mobility Test (g/s) @ 25°C (77°F)	U.S. Steel LT-37	2.54	0.9
@ -1°C (30°F)		0.309	0.04
@ -18°C (0°F)		0.02	--
Useful Temperature Range, °C (°F)		-12 to 121 (10 to 250)	-1 to 121 (30 to 250)
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