



## MOLYLUBE® ULTRA OPEN GEAR LUBRICANT

Molyube Ultra Open Gear Lubricant (OGL) is an open gear lubricant formulated for dragline, shovel and process open gears. Molyube Ultra OGL is formulated with a high viscosity paraffinic base oil, polymers, molybdenum disulfide or moly, and graphite lubricating solids, Extreme Pressure additives and corrosion inhibitors. Molyube Ultra OGL is designed for use as an open gear priming lubricant, a running in lubricant and a service lubricant. Molyube Ultra OGL is well suited for open gear use in severe mining and industrial applications. Molyube Ultra OGL meet or exceed the typical characteristics of Caterpillar branded and other compound open gear lubricants (OGLs). All grades exceed the requirements of the Komatsu P&H 464 and Bucyrus SD4713 specification for open gear lubricants.

Molyube Ultra Open Gear Lubricant is a full-service open gear lubricant in a single product, from priming through operational lubrication. Molyube Ultra OGL provides exceptional film formation capabilities ensuring that components are fully lubricated in the hydrodynamic or full fluid film mode. This lubricant meets or exceeds open gear lubricant requirements of all major dragline, electric rope shovel and hydraulic excavator manufacturers. The special 'High Dust' version provides superior dust absorbing capabilities to reduce lubricant thickening and improve film mobility. This unique characteristic improves wear control and extends lubricant application intervals in high dust and particulate operating environments. Molyube Ultra OGL is not recommended for use in anti-friction bearings.

### APPLICATIONS

- All applications requiring an ISO 18792 or AGMA 6014 Compound Open Gear Lubricant
- Priming new open gears, rollers and rails, dippers stick and handles and other sliding surfaces
- Running in rough open gears
- Operational/service lubrication of open gears, rollers & rails, bushings, dipper stick & handles, and other sliding surfaces

### PRODUCT FEATURES

- High base oil viscosity
- Outstanding Extreme Pressure and anti-wear properties
- Priming, running-in and operational capabilities
- High Dust formulation features special synthetic base oils that increase fluidity

### BENEFITS

- Provides a thicker lubricating film for maximum component separation and protection
- Maximizes component useful life helping to reduce replacement part costs and lost production time
- Provides excellent protection for new and used surfaces; slowly smooths rough surfaces improving contact profile and reducing contact pressure
- High Dust formulation better resists lubricant thickening and sloughing in environments with severe ambient dust levels

#### DISTRIBUTED BY:

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Typical Physical Properties				
Property	Test	Med. Light	Medium	High Dust
Viscosity @ 40°C, cSt	ASTM D445	50,000	50,000	50,000
Viscosity @ 100°C, cSt	ASTM D445	716	716	716
Viscosity Index	ASTM D2270	135	135	135
Apparent Viscosity @ 25°C, cP**	ASTM D2196	2,500	10,000	20,000
Copper Corrosion, 24hr @ 100°C	ASTM D4048	1a	1a	1a
Rust Protection	ASTM D1743	Pass	Pass	Pass
4-Ball EP, Weld Load, kg**	ASTM D2596	> 800 / > 1,000	> 800 / > 1,000	> 800 / > 1,000
4-Ball EP, Load Wear Index**	ASTM D2596	160	160	160
Timken Retention Test @ 43 lbs, minutes**	US Steel Film Life	> 30	> 30	> 30
Pumpability, Lincoln Ventmeter, 1,800 psi to 600 psi, maximum	US Steel Vent	-20°C < 30 sec.	-10°C < 30 sec.	-12°C < 30 sec.
Flash Point, (w/solvent) °C (°F)	ASTM D92	110 (230)	110 (230)	110 (230)
Flash Point, (w/o solvent) °C (°F)	ASTM D92	220 (428)	220 (428)	220 (428)
Useful Ambient Temperature, °C		-20 to 50	-10 to 50	-12 to 50
Useful Ambient Temperature, °F		-4 to 122	14 to 122	10 to 122
Color		Black	Black	Black

\*\* Test performed on pre-diluted lubricant

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