



# PRODUCT DATA SHEET



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## MOLYLUBE<sup>®</sup> ULTRA OPEN GEAR LUBRICANT

**Molyube Ultra Open Gear Lubricant** is an open gear lubrication package formulated for dragline, shovel and process open gears. **Molyube Ultra Open Gear Lubricant** 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 Open Gear Lubricant** is designed for use as an open gear priming lubricant, a running in lubricant and a service lubricant. **Molyube Ultra Open Gear Lubricant** is well suited for open gear use in severe mining and industrial applications. **Molyube Ultra Open Gear Lubricant Heavy and Medium** are compatible with Caterpillar branded open gear lubricants and meet or exceed the typical characteristics of that and other compound OGL's. All grades exceed the requirements of the Komatsu P&H 464 specification for open gear lubricants.

### *Applications*

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- All applications requiring an 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 or service lubrication of open gears, rollers and rails, bushings, dippers stick and handles and other sliding surfaces

### *Features and Benefits*

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|---|---|
| ◆ High base oil viscosity                   | Provides a thicker lubricating film for maximum component separation and protection.  |
| ◆ Extreme Pressure and anti-wear properties | Maximizes component useful life helping to reduce replacement part costs and lost production time.  |
| ◆ Priming and running in capabilities       | Provides excellent protection for new and used surfaces. Slowly smooths rough surfaces improving contact profile and reducing contact pressure. |

### *General Description*

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**Molyube Ultra Open Gear Lubricant** is a full-service open gear lubrication package in a single product, from priming through operational lubrication. **Molyube Ultra Open Gear Lubricant** provides exceptional film formation capabilities ensuring that components are fully lubricated in the hydrodynamic or full fluid film mode. Molyube Ultra Open Gear Lubrication meets or exceeds the open gear lubricant requirements of all major dragline, electric rope shovel and hydraulic excavator manufacturers. **Molyube Ultra Open Gear Lubricant** is not recommended for use in anti-friction bearings.

**Product No. 301776, 301094, 301777, 301095**

# MOLYLUBE® ULTRA OPEN GEAR LUBRICANT

## TYPICAL PROPERTIES

<u>Product No.</u>	<u>301776</u>	<u>301094</u>	<u>301777</u>	<u>301095</u>
<u>Old Product No.</u>	<u>78010</u>	<u>78015</u>	<u>78020</u>	<u>78030</u>
Bel-Ray Name Grade	Light	Medium Light	Medium	Heavy
Apparent Viscosity (Brookfield), ASTM D2196 @ 25°C (77°F), cP	4,950	2,500	10,000	35,000
Viscosity (Base Oils), ASTM D445 @ 40°C, cSt	12,750	50,000	50,000	50,000
@ 100°C, cSt	289	716	716	716
Copper Strip Corrosion, ASTM D4048 24 hrs @ 100°C, rating	1a	1a	1a	1a
4-Ball EP Test (Pre-dilution), ASTM D2596				
Weld Load (reportable per ASTM method), kg	800+	800+	800+	800+
Weld Load (actual), kg	1000+	1000+	1000+	1000+
Load Wear Index, kg	223	223	223	223
Last Non-seizure Load, kg	160	160	160	160
4-Ball EP Test (Diluted), ASTM D2596				
Weld Load, kg	800	800	800	800
Load Wear Index, kg	127	127	127	127
Last Non-seizure Load, kg	126	126	126	126
4-Ball Wear Test, ASTM D2266 @ 1200 rpm, 40 kg, 1 hr, 75°C				
Scar Diameter, mm	0.48	0.48	0.48	0.48
Timken Retention Test (Pre-dilution), USS Method Film Life, @ 43 lbs, minutes	30	30	30	30
Flash Point, ASTM D92, COC °C (°F)	147 (297)	76 (169)	154 (309)	162 (324)
Useful Temperature Range (without heat) °C	-25 to 50	-20 to 50	-10 to 50	0 to 50
(°F)	(-13 to 122)	(-4 to 122)	(14 to 122)	(32 to 122)
Color	Black	Black	Black	Black