

Product Data Sheet

Molub-Alloy 8031 is formulated to be readily pumpable, slumpable for good lubricant distribution in enclosed and semi-enclosed applications and drains freely from guards surrounding gear applications. This product does not build up in the roots of gear teeth.

Molub-Alloy 8031 lubricants are NLGI 00 greases designed to lubricate heavily loaded open gears, screw type actuators, low to moderate velocity plain bushings and rolling element bearings equipped with centralised lubrication systems.

Molub-Alloy 8031 lubricants are part of Tribol's Eco-Solutions™ product offering. Formulated to address environmental concerns, Molub-Alloy 8031 lubricants are free of lead, chlorinated solvents, and barium. They contain no solvents or diluents and meet the TCLP (Toxicity Characteristic Leaching Procedure).

DESCRIPTION

Molub-Alloy 8031 lubricants are formulated with a non-soap, inorganic thickening system which is non-melting. Combined in the formulation is a high viscosity base fluid especially designed to provide extreme pressure (EP) and antiwear characteristics to the lubricant.

Molub-Alloy 8031 lubricants contain proprietary blends of Molub-Alloy lubricating solids that, in combination with chemical EP additives, react synergistically to provide outstanding protection to metal surfaces, when boundary lubrication conditions are encountered.

USAGE

Molub-Alloy 8031 lubricants are recommended for use where the extra protection of extreme pressure and antiwear characteristics are required, and where no product build up is desired.

Molub-Alloy 8031 may also be used to lubricate bushings, bearings and gears in units where an ISO 2200, 3000 or 6000 viscosity grade lubricant is required, but fluid lubricants would leak out.

Molub-Alloy 8031 lubricants are formulated with a non-soap thickener system, which is non-melting, making them ideal for application to hot gear tooth surfaces.

Molub-Alloy 8031 is formulated to minimise the potential for eventual plugging of the lubricant distribution lines commonly associated with conventional greases.

NOTES

Molub-Alloy 8031 has been tested for compatibility with various types of greases. These tests indicate that Molub-Alloy 8031 is compatible with most common greases. However, as with all greases, if Molub-Alloy 8031 is to be mixed with another product, monitor the application for indications of incompatibility after the changeover.

TYPICAL PROPERTIES

Molub-Alloy 8031 Mill Open Gear Lubricants

8031/2200 8031/3000 8031/6000

• NLGI Grade	00	00	00
• Thickener type	---- Non-Soap Inorganic ----		
• Penetration, ASTM D 217, Worked 60	400-430	400-430	
• Base Fluid Properties			
ISO Viscosity Grade, ASTM D 2422		3000	
Viscosity, ASTM D 445			
@ 40°C, cSt	2200	3000	
@ 100°C, cSt	83	96	
Flash Point, ASTM D 92, COC, °C	224	218	
• Viscosity, Apparent ASTM D 2983 Brookfield Spindle # 7 @ 10 rpm, @ 25°C, cps	76000	78000	
• Copper Strip Corrosion, ASTM D 4048, 24 hrs @ 100°C	1b	2c	
• Four Ball EP Test, ASTM D 2596			
Load Wear Index, kg	66	88	
Weld Load, kg	400	400	
• Timken EP Test, ASTM D 2509, OK Load, kg/lbs	25/55	25/55	
• Retention Test, US Steel, 30 minutes	Pass	Pass	
• FZG Test, DIN 51354 (A/2, 76/50 method)	12 +	12 +	
• Pumpability/Dispensability, Lincoln Ventmeter			
psi @ -1.1°C		50	
psi @ -6.7°C	200	700	
• Molub-Alloy Solids Grade Classification	----- Multi-Service -----		
• TCLP (Unused)	Pass	Pass	

Subject to Usual Manufacturing Tolerances