



Product Data Sheet

Lithium Complex Moly 5% EP1 & EP2 Lithium Complex Grease

DESCRIPTION

Nemco Lithium Complex Moly 5% Grease is formulated to meet the extreme conditions encountered on off-highway construction equipment as well as heavy duty applications. These products are lithium complex thickened greases blended with high viscosity base fluids for exceptional film strength, and fortified with 5% molybdenum disulphide (moly) for additional load carrying capacity and anti-wear performance.

Lithium Complex Moly 5% Grease contains a unique blend of extreme pressure, anti-wear, anti-rust and oxidation inhibitors as well as functional polymers for better adhesion in wet environments and better performance at higher temperatures and because they are lithium complex thickened greases, they have a high dropping point which also provides excellent protection in high temperature environments.

Lithium Complex 5% Moly grease is grey coloured and tacky, and is available in NLGI #1 and #2 grades. The typical operating temperature range for Lithium Complex 5% Moly EP2 Grease is -18°C to 163°C, and for the EP1 Grease is -29°C to 163°C.

Applications

- Designed for use in heavy duty equipment and off-highway service where the 5% moly content provides protection against shock loading and extreme pressures.
- The 5% moly content of these greases meets requirements for various OEMs of off-highway heavy duty equipment, including Caterpillar 5130 (7TJ and 5ZL), 5230 (7LL) model Mining Excavators and 994 (9YF) Model Wheel Loaders.

Typical Characteristics – Lithium Complex 5% Moly EP1 and EP2 Greases

NLGI Grade	EP1	EP2
Soap type	Lithium complex	Lithium complex
Texture	Tacky	Tacky
Colour	Gray	Gray
Worked penetration, 25°C 60 strokes	310 – 340	265 - 295
Dropping point ASTM D1265, °C (°F) minimum	260 (500)	260 (500)
Water washout, 80°C ASTM D1264, % loss maximum	5	5
Rust prevention ASTM D1743, rating	Pass	Pass
Four ball wear ASTM D2266, scar diameter (mm)		0.50
Four ball extreme pressure weld point ASTM D2596, kg	400	400
Timken OK load ASTM D2509, lb	55	55
Viscosity cSt at 100°C cSt at 40°C	12.3 – 15.1 162 - 198	22.0 - 24.5 327 - 350
Viscosity index, min	80	80

Physical characteristics shown in the table are typical and may vary slightly.