



## Product Data Sheet

### Lithium Complex Moly 5% EP1 and EP2

#### Premium Lithium Complex Lubricating Grease

##### Description

Nemco Lithium Complex Moly 5% EP Grease is premium lithium-complex, extreme pressure grease designed for use in off-highway, heavy duty, extreme conditions and is formulated to better adhere in wet environments and high temperatures. This grease has a high dropping point, in excess of 260°C (500°F), which ensures retention where high temperatures are encountered.

Lithium Complex Moly 5% EP Grease is formulated with high viscosity base fluids for exceptional film strength and is fortified with molybdenum disulfide for additional load carrying capacity and anti-wear performance. It contains a unique blend of extreme pressure, anti-wear and rust and oxidation inhibitors as well as functional polymers for better adhesion in wet environments and better performance at higher temperatures.

##### Features and Benefits

- EP Performance; Excellent extreme pressure properties reduce wear and maintenance costs.
- Long Life; Enhanced oxidative and thermal stability leads to longer grease life.
- High Dropping Point; Allows Lithium Complex Moly 5% Grease to handle high temperature service.
- Ideal for extreme temperature and wet environments.

##### Applications

- Chassis parts
- Off-highway equipment wheel bearings
- Mining equipment wheel bearings
- Industrial gear boxes
- Hydraulic excavator mining shovels

##### Meets and/or Exceeds:

The 5% moly content meets requirements for various OEMs of off-highway heavy duty equipment including: Caterpillar 5130 (7TJ and 5ZL), 5230 (7LL); and Mining Excavators and 994 (9YF) Model Wheel Loaders

##### Availability and product codes

Pack size	10x1 tube case	35lb pail	120lb keg
Lithium Moly 5% EP2	GRGRZ0014	GRGRZ0055	GRGRZ0083
Lithium Moly 5% EP1	n/a	GRGRZ0054*	n/a
Availability	Year round / *Contact a Technical Sales Representative		

##### Use and Storage

To get the best performance from your equipment ensure products meet or exceed manufacturing requirements. Lubricants typically have a shelf life of 5 years under ideal storage conditions. Keep containers in good condition and away from moisture. Keep closures securely in place to prevent exposure to air which may cause the product to dry out. Where possible, avoid storage in areas where the temperature fluctuates between extreme highs and lows.

**Typical physical characteristics – Lithium Moly 5% Grease**

Properties	Method	EP1	EP2
NLGI Grade	ASTM D217	1	2
Soap/Thickener Type		Lithium Complex with Moly 5%	Lithium Complex with Moly 5%
Appearance/Texture	Visual	Smooth/ tacky	Smooth/ tacky
Colour	Visual	Grey	Grey
Worked Penetration, 25°C (77°F), mm/10, 60 strokes	ASTM D217	310-340	265-295
Dropping Point, °C (°F)	ASTM D2265	>260(>500)	>260(>500)
Viscosity of Oil, cSt @ 40°C (without polymer)	ASTM D445	162-198	327-350
Viscosity of Oil, cSt @ 100°C (without polymer)	ASTM D445	12.3-15.1	22-24.5
Four-Ball Wear Test, Scar, mm	ASTM D2266	0.5	0.5
Four-Ball Weld Point, kg (minimum)	ASTM D2596	400	400
Four-Ball Load-Wear Index, kgf (minimum)	ASTM D2596	70	70
Corrosion Prevention, rating	ASTM D1743	Pass	Pass
Copper Corrosion	ASTM D4048	1b	1b
Timken OK Load, kg (lb) (minimum)	ASTM D2509	25(55)	25(55)
Water Washout, % Loss (maximum)	ASTM D1264	5	5
Salt Fog Test, Hrs.	ASTM D117	4,000	n/a
Operating Temperature Range		-29°C to 163°C -20°F to 325°F	-17°C to 163°C 0°F to 325°F

These characteristics are typical of current production, variations in these characteristics may occur.

**Health, Safety, & Environment**

GHS compliant Safety Data Sheets are available at [nemco.ca](http://nemco.ca) under 'Safety Data Sheets'. For SDS in French, please contact [info@nemco.ca](mailto:info@nemco.ca). This material is classified under WHMIS 2015. Please refer to the SDS which contains valuable information critical to the safe handling and proper use of the product. Always take used grease to an authorized collection point. Avoid discharge into the environment. As with any lubricant, keep out of reach of children and animals.

**Quality**

Nemco works with respected industry suppliers and is an active member of ILMA. Nemco Resources Limited manufacturing facility in Winnipeg, Manitoba is proud to be certified to ISO 9001. For questions regarding quality, please contact our Technical Sales Representatives.