



Product Data Sheet

Lithium EP00 and EP0

Premium Lithium Complex Lubricating Grease

Description

Nemco Lithium Complex EP Grease is premium lithium-12hydroxy soap based lubricating grease designed for extreme-condition use in industrial applications. This general purpose grease is formulated with high quality base oils and a special additive package.

Lithium EP Grease is fortified with rust and oxidation inhibitors and extreme pressure additives. This unique formulation provides extreme pressure (EP) and stay-in-place properties. The available EP00 and EP0 grades offer a softer texture making them ideal for use in centralized lube systems and in low-temperature service.

Features and Benefits

- EP Performance; Excellent extreme pressure properties reduce wear and maintenance costs.
- Long Life; Outstanding mechanical stability over long periods of rigorous service.
- Low-temperature operations/service.

Applications

- Plain/rolling-element compressor bearings
- Fans
- Centrifugal pumps
- Chassis parts
- U-joints
- Passenger vehicle water pumps
- Track rollers
- Commercial lawn mowers
- General purpose/shop/industrial use
- Underground mining machinery
- Crushers
- Vibrating screens
- Centralized lubrication systems

Availability and product codes

Pack size	35lb pail	110lb keg
Lithium EP00	GRGRZ0059	GRGRZ0086
Lithium EP0	GRGRZ0060*	GRGRZ0087*
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 Complex EP Grease

Properties	Method	EP00	EP0
NLGI Grade	ASTM D217	00	0
Soap/Thickener Type		Lithium Complex	Lithium Complex
Texture	Visual	Smooth	Smooth
Colour	Visual	Amber	Amber
Worked Penetration, 25°C (77°F), mm/10, 60 strokes	ASTM D217	415	370
Dropping Point, °C (°F)	ASTM D2265	>193(>380)	>193(>380)
Viscosity of Oil, cSt @ 40°C	ASTM D445	180-210	180-210
Viscosity of Oil, cSt @ 100°C	ASTM D445	15.5-17.5	15.5-17.5
Four-Ball Wear Test, Scar, mm	ASTM D2266	0.45	0.45
Four-Ball Weld Point, kg (minimum)	ASTM D2596	200	200
Four-Ball Load-Wear Index, kgf (minimum)	ASTM D2596	40	40
Timken OK Load, kg (lb) (minimum)	ASTM D2509	18(40)	18(40)
Water Spray-Off, wt.% (loss)	ASTM D4049	n/a	n/a
Mobility Test, @ 60°F), g/min	US Steel	n/a	n/a
Rust Protection (5% synthetic sea water)	ASTM D5969	Pass	Pass
Operating Temperature Range		-35°C to 65°C -31°F to 149°F	-34°C to 121°C -30°F to 250°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 under 'Safety Data Sheets'. For SDS in French, please contact 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.