



Product Data Sheet

Polyurea EP1 and EP2

Premium Polyurea Lubricating Grease

Description

Nemco Polyurea EP Grease is a premium all-purpose non-soap polyurea (metals-free) lubrication grease formulated with high quality raw materials for use in automotive, agriculture, industrial and construction applications. It is fortified with rust and oxidation inhibitors as well as extreme pressure additives. Polyurea EP Grease offers a dropping point of over 260°C (500°F) which ensures retention where high temperatures are encountered. It performs well in areas where water washout is a major concern.

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 Polyurea Grease to handle high temperature service.
- Ideal for wet and harsh environments.

Applications

- Centralized lube systems
- General machine lubrication
- High-temperature service
- Wet and harsh environments
- Shock and heavy load conditions
- Chassis and wheel bearings with CV and U-Joints

Meets and/or Exceeds

Polyurea EP2: NLGI GC-LB for automotive chassis and wheel bearings

Important Note

Polyurea based grease is typically not compatible with other grease bases. If polyurea grease is replacing other soap-type greases, the system should be fully purged of the other grease to avoid the potential for incompatibility, and to get the full benefits of the polyurea grease technology.

Availability and product codes

Pack size	10x1 tube case	35lb pail	120lb keg	400lb drum
Polyurea EP1	GRGRZ0018	GRGRZ0062	GRGRZ0088	n/a
Polyurea EP2	GRGRZ0019*	GRGRZ0063	GRGRZ0089	GRGRZ0112*
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 – Polyurea EP Grease

Properties	Method	EP1	EP2
NLGI Grade	ASTM D217	1	2
Soap/Thickener Type		Polyurea	Polyurea
Texture	Visual	Smooth	Smooth
Colour	Visual	Blue-Green	Blue-Green
Worked Penetration, 25°C (77°F), mm/10, 60 strokes	ASTM D217	375	275
Roll Stability	ASTM D1831	<2%	<2%
Dropping Point, °C (°F)	ASTM D2265	260(500)	260(500)
Oxidation Stability, 100hrs, 99°C (210°F) (maximum)	ASTM D942	10	10
Viscosity of Oil, cSt @ 40°C	ASTM D445	n/a	170-195
Viscosity of Oil, cSt @ 100°C	ASTM D445	n/a	13-18
Four-Ball Wear Test, Scar, mm	ASTM D2266	0.75	0.75
Four-Ball Weld Point, kg (minimum)	ASTM D2596	315	315
Four-Ball Load-Wear Index, kgf (minimum)	ASTM D2596	50	50
Corrosion Prevention, rating	ASTM D1743	Pass	Pass
Timken OK Load, kg (lb) (minimum)	ASTM D2509	20.4(45)	20.4(45)
Water Washout, 38°C (100°F)	ASTM D1264	<2%	n/a
Water Washout, 79°C (175°F)	ASTM D1264	<5%	<5%
Pour Point, °C (°F)	ASTM D97	-12(10)	12(54)

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. While this material is not 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.