



Poly-Xtreme®

High Temperature Polyurea Grease

General Description

Poly-Xtreme® grease is a premium non-soap thickened, heavy duty, multi-purpose, EP fortified grease. It is recommended for automotive, agriculture, industrial and construction use. Poly-Xtreme has advantages over conventional soap thickened greases in longer life, high-temperature and wet applications. This grease also has the unique ability to migrate where lubrication is required.

Poly-Xtreme grease is formulated with an advanced technology unique non-soap polyurea thickener, selected base oils and additives for high temperature operation, strong oxidation and wear protection, and superior water resistance. This product is compatible with other polyurea grease enabling its use across multiple applications. Poly-Xtreme outperforms traditional soap-based greases with excellent low temperature properties, superior water washout resistance and good shear stability.

Poly-Xtreme NLGI #2 grade grease qualifies for the highest NLGI performance level (GC-LB) for automotive chassis and wheel bearing grease. Its excellent low-temperature characteristics, water resistance and superior oxidation control allow for longer service.

Features and Benefits

- **Long Life:** Superior resistance to oxidation, thermal breakdown and oil separation providing longer grease life.
- **Extreme Pressure Performance:** Excellent extreme pressure, film strength, and adhesion properties reduce wear and maintenance costs.
- **Water Washout Resistance:** The nature of the unique non-soap formulation gives it the ability to resist water spray-off and washout while staying in place under wet conditions.
- **High Dropping Point:** A dropping point over 500°F demonstrates Poly-Xtreme's ability to handle high-temperatures. It has a continuous operating temperature range of -20 to 300°F.
- **Rust and Corrosion Protection:** Excellent rust and corrosion prevention leads to prolonged equipment life even under wet operating conditions.
- **Unique Flexibility to Protect Equipment:** Due to its non-soap based thickener, Poly-Xtreme has the ability to migrate when and where lubrication is required during long duty cycles.

Expect Superior Performance In

- General Machine Lubrication
- High-temperature applications
- Wet environments
- Shock and heavy load conditions
- Chassis and wheel bearing lubrication

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Typical Applications

Poly-Xtreme® is recommended for:

- Fleet, Construction, Industrial bearings
- High-temperature operations
- Crushers, pumps, conveyers

Typical Customers

- Agricultural Equipment Operators & Shops
- Truck Service Shops
- Auto Service Shops
- Mining Service Companies
- Construction Companies
- Industrial Equipment Operators

Typical Properties

Properties	Poly-Xtreme #2	Poly-Xtreme #1
NLGI Grade	2	1
NLGI Service Classification	GC-LB	
Thickener	Polyurea	Polyurea
Molybdenum Disulfide, Weight %	None	None
Color	Blue	Blue
Penetration, 60 strokes (range)	265-295	310-340
Dropping Point, Minimum °F	>500	>500
Base Oil Viscosity, cSt @ 40°C	100	100
Base Oil Viscosity, cSt @ 100°C	11	11
Base Oil Viscosity Index	95	95
Base Oil Group	Mineral	Mineral
Timken Load	45	45
Four Ball Wear Scar	0.6 max	0.6 max
Four Ball EP Weld	400	400
Four Ball Load Wear Index	56	56
Rust Protection	Pass	Pass
Copper Corrosion	1b	1b
Oxidation Stability @100 hrs	<5	<5
Oil Separation % Separated	<1	<3
Water Washout % Loss @ 175°F	<5	<10
High Temp Wheel Bearing Life, hrs	>80	
Low Temperature Torque @ -40°F, N-m	<15.5	
Operating Temperature Range °F	-20 to 300°F	-20 to 300°F
Operating Temperature Range °C	-30 to 150°C	-30 to 150°C

The data can vary within given tolerances. Temperature range is given as a guideline only.

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

Health & Safety

A complete safety data sheet is available by calling 1-651-355-8438 or visit cenex.com/sds-library.