



TECHNICAL DATA

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278 Polyurea Grease

Polyurea Grease is a premium quality multipurpose, high temperature, extreme pressure polyurea grease that is specially formulated to provide the severe lubrication requirements of plain and rolling-element bearings in long service applications such as electric motor bearing, sealed for life bearing, high temperature pump bearing and automotive constant velocity joint applications.

Polyurea Grease is blended and compounded with high quality base oil, an ashless organic polyurea thickener coupled with rust and oxidation inhibitors and an extreme pressure additive system that is non-corrosive to yellow metals. This formulation provides the Polyurea Grease with the following features and benefits:

1. Excellent thermal and oxidation stability.
2. Excellent high temperature performance.
3. Very good resistance to water washout and water spray-off.
4. Increased durability and shear stability versus conventional polyurea greases when subjected to mechanical shear stresses and forces.
5. Excellent rust and corrosion protection.
6. Excellent wear and extreme pressure protection.
7. A high load-carrying capacity.
8. Low noise properties.
9. Long service life and bearing life.

Polyurea Grease is recommended for use in the following applications:

- Electric motor bearings especially high output (horsepower), high load electric motors
- Unsealed electric motor bearings operating under moist conditions
- Fin fan bearings
- High-temperature pump bearings
- Sealed-for-life bearings
- Antifriction bearings operating at high speeds (10,000 rpm and greater)
- Automotive wheel bearings, chassis parts and underhood applications such as alternators, air conditioner compressor clutch bearings, water pumps and idler pulleys.

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- Ball or roller bearings operating at high temperatures where low oil separation is required.
- Constant velocity joints
- Agitator bearings in washing machines
- Bearing applications requiring a high-temperature, extreme pressure, long life grease
- Applications where low noise operations are beneficial or required

TYPICAL PROPERTIES

NLGI Grade	2
Worked Penetration 60 strokes ASTM D-271	280
Dropping Point °F/°C	525°/274°
Four Ball Wear Test ASTM D2266 Scar diameter, mm	0.5
Four Ball E.P. Test ASTM D2596 Weld Point, kg-f	315
Timken E.P. Test ASTM D-2509 OK Load, lb-f	45
Oxidation Stability ASTM D-942 Pressure drop, psi/kPa 100 hours	5/ 34.5
Rust Prevention Test ASTM D-1743	Pass
Water Washout Test ASTM D-1264 % Loss	2
Water Spray-Off Test ASTM D-4049 % Loss	20
Copper Strip Corrosion Test ASTM D-4048	1a
Base Oil Properties	
Viscosity @ 40°C, cSt ASTM D-445	144
Viscosity @ 100°C, cSt ASTM D-445	14
Viscosity @ 100°F, SUS	757
Viscosity @ 210°F, SUS	75
Viscosity Index ASTM D-2270	95
Flash Point °F/°C	455°/235°