



TECHNICAL DATA

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278 Polyurea Grease

Polyurea Grease is a premium quality multipurpose, high temperature, extreme pressure grease that is specially formulated to meet the severe lubrication requirements of plain and rolling-element bearings in long service 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 following features and benefits:

- Excellent thermal and oxidation stability and high temperature performance.
- Very good resistance to water washout and water spray-off.
- Increased durability and shear stability.
- Excellent rust and corrosion protection.
- Excellent wear and extreme pressure protection.
- A high load-carrying capacity.
- Low noise properties.
- Long service life and bearing life.

Polyurea Grease is recommended for use in the following applications:

High output, high load electric motor bearings	Unsealed electric motor bearings in moist conditions
Fin fan bearings	High-temperature pump bearings
Sealed-for-life bearings	High speed antifriction bearings (10,000 rpm+)
Ball or roller bearings at high temperatures	Agitator bearings in washing machines
Applications for high-temp, EP, long life grease	Low noise operations

Automotive wheel bearings, chassis parts, constant velocity joints and under hood applications such as alternators, air conditioner compressor clutch bearings, water pumps and idler pulleys.

Polyurea Grease has an operating temperature range of -4°F to 350°F

TYPICAL PROPERTIES

NLGI Grade	2
Specific Gravity 60°F	0.94
Worked Penetration 60 strokes ASTM D-271	280
Dropping Point °F/°C	>500°/>260°
Four Ball Wear Test (ASTM D2266), Scar diameter, mm	0.55
Four Ball E.P. Test (ASTM D2596) Weld Point, kg-f	315
Oxidation Stability (ASTM D942), Pressure drop, 100 hours @ 99°C, kPa	<35
Rust Prevention Test (ASTM D1743), 48 hours @ 52°C	Pass
Water Washout Test (ASTM D1264), % Loss	<5
Water Spray-Off Test (ASTM D4049), % Loss	22.07
Copper Strip Corrosion Test (ASTM D4048), 24 hours @ 100°C	1b
Base Oil Properties	
Viscosity @ 40°C, cSt ASTM D-445	144
Viscosity @ 100°C, cSt ASTM D-445	14
Viscosity Index ASTM D-2270	95
Flash Point °F/°C	455°/235°