

ConocoPhillips EP Polyurea NLGI Grade No. 2

Category : Fluid , Lubricant , Urea Gellant

Material Notes:

Polyurea Greases offer significant performance advantages in high temperature, multipurpose, long-life and wet applications over conventional soap thickened greases. The nonsoap, polyurea thickener, coupled with top-quality base oils and selected additives, provides a grease family which is extremely versatile, tough and long lasting. Most greases (soap based) use soap as a sponge to hold and release their oil/additive combinations when lubrication is required. Eventually, the oil is consumed, and the part must be regreased. Conoco Polyurea and Polyurea EP use a gel structure to securely bind the oil and additives to the nonsoap thickener. This provides a grease which is exceptionally resistant to oil bleeding, handles high temperatures (up to 500°F, 350°F continuous), is shear stable and is nearly impervious to water washout. Rust and corrosion protection is significantly enhanced, particularly over long periods since water, air and other corrosive material cannot penetrate the gel structure of the grease as easily as with soap-thickened greases. Conoco Polyurea Grease is specifically designed for exceptionally long life in applications that do not require EP protection, such as sealed for life bearings, electric motor bearings and other lightly loaded high-speed antifriction bearings. Periodic regreasing can lead to even longer bearing life in "sealed for life" applications. Its shear stability and resistance to oxidation ensures maximum protection in these applications. Exceptional resistance to water washout is particularly attractive in automotive under hood applications such as alternators, magnetos, water pumps, idler pulleys and other applications where water contamination can quickly degrade bearing life. Conoco EP Polyurea Grease is a shear, stable product with exceptional extreme-pressure characteristics and excellent water resistance. It is recommended for use in steel mills, off-road equipment, and fleet and commercial applications. It has excellent mobility at low temperatures. Information provided by ConocoPhillips.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ConocoPhillips-EP-Polyurea-NLGI-Grade-No-2.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	75	75	Viscosity Index
Saybolt Viscosity at 100°F	766 SUS	766 SUS	Base Oil Property
Saybolt Viscosity at 210°F	68 SUS	68 SUS	Base Oil Property
Kinematic Viscosity at 40°C (104°F)	144 cSt	144 cSt	Base Oil
Kinematic Viscosity at 100°C (212°F)	12 cSt	12 cSt	Base Oil

Mechanical Properties	Metric	English	Comments
Four Ball Extreme Pressure, Load Wear Index	50	50	1770 rpm, 80°F (27°C); ASTM D-2596
Four Ball Extreme Pressure, Weld Load	400 kg	882 lb (mass)	1770 rpm, 80°F (27°C); ASTM D-2596
Penetration	350	350	mm/10, Worked 100,000 strokes
Penetration P(60), 1/10 mm	280	280	ASTM D-217

Timken Test Mechanical Properties	27200 g Metric	60.0 lb English	Comments
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Thermal Properties	Metric	English	Comments
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Dropping Point	260 °C	500 °F	
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Descriptive Properties	Value	Comments
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Color	Blue	
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Copper Corrosion	1A	ASTM D4048
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Oxidation Stability	5 psi drop/100 hrs.	ASTM D942 at 210°F
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Rust Test, Distilled Water	Pass	ASTM D1743, 48hrs, 52°C, 100% RH
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Thickener	Polyurea	
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Water Washout	Max 10% Loss	ASTM D1264, 600 RPM, 175°F, 1 hr
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China