

## ConocoPhillips Polyurea NLGI Grade No. 1

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-Polyurea-NLGI-Grade-No-1.php](http://www.lookpolymers.com/polymer_ConocoPhillips-Polyurea-NLGI-Grade-No-1.php)

| Physical Properties                  | Metric   | English  | Comments          |
|--------------------------------------|----------|----------|-------------------|
| Viscosity Measurement                | 98       | 98       | Viscosity Index   |
| Saybolt Viscosity at 100°F           | 575 SUS  | 575 SUS  | Base Oil Property |
| Saybolt Viscosity at 210°F           | 68 SUS   | 68 SUS   | Base Oil Property |
| Kinematic Viscosity at 40°C (104°F)  | 110 cSt  | 110 cSt  | Base Oil          |
| Kinematic Viscosity at 100°C (212°F) | 12.1 cSt | 12.1 cSt | Base Oil          |

| Mechanical Properties      | Metric | English | Comments                      |
|----------------------------|--------|---------|-------------------------------|
| Penetration                | 380    | 380     | mm/10, Worked 100,000 strokes |
| Penetration P(60), 1/10 mm | 310    | 310     | ASTM D-217                    |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
| Dropping Point     | 249 °C | 480 °F  |          |

| Descriptive Properties           | Value               | Comments                         |
|----------------------------------|---------------------|----------------------------------|
| Color                            | Red                 |                                  |
| Copper Corrosion                 | 1A                  | ASTM D4048                       |
| Oil Separation                   | 0.017               | ASTM D1742, 77°F, 24 hrs         |
| Oxidation Stability              | 5 psi drop/100 hrs. | ASTM D942 at 210°F               |
| Rust Test, 5% Synthetic Seawater | Pass                | ASTM D1743, 48hrs, 52°C, 100% RH |
| Rust Test, Distilled Water       | Pass                | ASTM D1743, 48hrs, 52°C, 100% RH |
| Thickener                        | Polyurea            |                                  |
| Water Washout                    | Max 0% Loss         | ASTM D1264, 600 RPM, 175°F, 1 hr |

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