

ConocoPhillips Tacna® M5 Grease NLGI Grade 2

Category : Fluid , Lubricant , Lithium Gellant , Organic Soap Gellant

Material Notes:

Description: Conoco Tacna M5 Grease is a high-performance, lithium-complex grease with 5% molybdenum disulfide specifically designed for extreme loading conditions. The combination of highly refined base oil and moly as a solid lubricant provides superior wear protection for extra heavily loaded equipment, such as Caterpillar 5000 series and Le Tourneau mining equipment. Balanced antiwear and EP additives provide excellent wear protection under even extreme operating conditions with the ability to work as a true "multipurpose" grease. One grease for all equipment helps prevent damaging misapplication. Good water washout properties also help ensure the grease stays where it needs to be, in critical machinery. Suitable for use in most centralized lubrication systems where the small particle size of molybdenum disulfide (

Order this product through the following link:

http://www.lookpolymers.com/polymer_ConocoPhillips-Tacna-M5-Grease-NLGI-Grade-2.php

| Physical Properties | Metric | English | Comments |
|--------------------------------------|----------|----------|--|
| Viscosity Measurement | 66 | 66 | Viscosity Index (Base Oil Property); ASTM D-2270 |
| Kinematic Viscosity at 40°C (104°F) | 177 cSt | 177 cSt | Base Oil; ASTM D-445 |
| Kinematic Viscosity at 100°C (212°F) | 13.9 cSt | 13.9 cSt | Base Oil; ASTM D-445 |

| Mechanical Properties | Metric | English | Comments |
|---|-----------|---------------|-------------------------------|
| Four Ball Extreme Pressure, Load Wear Index | 51 | 51 | ASTM D-2596 |
| Four Ball Extreme Pressure, Weld Load | 315 kg | 695 lb (mass) | ASTM D-2596 |
| Four Ball Wear | 0.650 mm | 0.0256 in | Scar mm @ 40 kg.; ASTM D-2596 |
| Penetration | 266 - 294 | 266 - 294 | Worked 10,000 strokes |
| | 280 | 280 | ASTM D-217 |
| Timken Test | 24900 g | 55.0 lb | ASTM D-2509 |

| Thermal Properties | Metric | English | Comments |
|--------------------|----------|---------|--------------------------------|
| Pour Point | -15.0 °C | 5.00 °F | (Base Oil Property); ASTM D-97 |
| Flash Point | 227 °C | 440 °F | Base Oil Property; ASTM D-92 |
| Dropping Point | 260 °C | 500 °F | ASTM D-2265 |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Color | | |

| Descriptive Properties | Gray-Black Value | Comments |
|------------------------|--------------------|-------------------------|
| Molybdenum Disulfide | 0.05 | >5 micron particle size |
| Oil Separation | 1 wt. % | ASTM D1742 |
| Oxidation Stability | 4 psi drop/100 hrs | ASTM D942 |
| Rust Test Rating | Pass | ASTM D1743 |
| Soap Type (Thickener) | Lithium Complex | |
| Texture | Smooth | |
| Water Washout | 4 % | ASTM D-1264 |

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