

SYNTHETIC POLYTHERM-2 100, 220, 460 (Synthetic Polyurea Grease)

DESCRIPTION:

SYNTHETIC POLYTHERM is fully synthetic high performance long life polyurea grease suitable for applications in wide range of industrial applications. This grease is formulated with fully synthetic high viscosity PolyAlphaOlefin (PAO) base oil stocks engineered. It contains small dosage of synthetic (PAO) ester additives with special white solid lubricants Mox-Active (Organo Molybdenum Complex) a German technology improvement additive creates a passive film on friction surfaces before friction occurs, an extremely low coefficient of friction even under extreme pressures. Special EP additives which gives outstanding thermal & superior shear stability, excellent high temperature capabilities, provide strong anti-oxidant, anti-wear, excellent water resistance properties compared to conventional polyurea greases. It also gives excellent lubrication for extended bearings life and gives longer relubrication interval periods over a wide range & high temperature. Excellent oil film retention properties when temperature rises the grease bleeds oil and when temperature drops, the free oil returns back to the grease.

APPLICATIONS INDUSTRY:

- **SYNTHETIC POLYTHERM-2.5 100** grease is recommended for various bearings that require particularly heat resistance, such as home appliance motors and electrical components for automobiles, sealed for life bearings, rolling element bearings, high-speed antifriction bearings, electric motors, fans, air-conditioning bearings, automotive alternator/generator/starter motor bearings and other wide range of industrial applications operating under high speed and high temperature conditions. Applications for heavy duty electric motor ball, Pumps, Small, medium and large bearings and roller bearing where antifriction bearings operating at high speed & high temperature 10,000 to 30000 RPM and greater.
- **SYNTHETIC POLYTHERM-00 220** grease is specifically designed for excellent flow for automatic centralized and Individualized systems. The enhanced pumpability and low temperature mobility make it an ideal choice for grease systems subject to low ambient temperatures, such as those found in food processing freezers or in outdoor applications. It may also be used for the lubrication of enclosed gears where oil leakage may be a concern.
- **SYNTH POLYTHERM-1 & 2 220** grease is specifically designed for multi-purpose use in heavy-duty plain and anti-friction bearings.
- **SYNTHETIC POLYTHERM-1 & 2 460** grease recommended for heavily loaded plain and anti-friction bearings. It is also recommended for bearings where extreme temperatures are a concern, such as steam heated rolls, exhaust fan bearings, felt roll bearings, and oven conveyor bearings. **Wind Mill, Power generation & Energy plants, Steel & Cement Segment:** Rolling Bearings, Grinding Mills, Ball Mills, Rotor Bearings (Roller Bearings) Coke Oven Plant, Slide Tracks Sintering Machine, Roller Bearings Billet Mould, Hot metal car wheels, Roller Bearings - Ladles, Arc Furnaces Steel Melting Shop, Roller Bearings - Ladle Turret, Torch Cutter Continuous Casting Machine, Roller Bearings – Work Rolls, Pre-heating Hot Rolling Mill. **Chemical plants, Paper & Pulp Segment:** Roller Bearings Digester – Chemical pulping, Roller Bearings Bleacher - Chemical pulping, Wire Press, Screw type Press Dewatering Presses, Breast Roll, Suction Roll, Other Rolls Wet end, Breast Roll, Suction Roll, Other Rolls Wet end, Roller Bearings in Steam Head Dry end, Drying Cylinders, Calendar Rolls Dry end, Soot Blower, Flue gas fan Chemical Recovery System - Paper manufacturing. **Sugar Industry Segment:** Boiler travelling grate bearing. **Textile Segment:** Top & Bottom Rollers Speed Frame, Ring Frame, Drying Cylinder Bearings Sizing, Fan Bearings Stenter Machine, Dyeing, Finishing.
- Refer to equipment owner's manual for proper lubricant recommendation.

FEATURES, BENEFITS & ADVANTAGES

- Resistant to Alkalis, Acids, Chemicals, steam contaminated environments
- Good start-up characteristics at low temperatures.
- Most suitable grease for cold weather pumpability and low temperature environment.
- Extreme pressure properties to perform under high speed, high temperature & high shock loads.
- Excellent stability and outstanding protection against rust and corrosion.
- Maximum temperature for prolonged usage is -40°C to 200°C.
- Allows use in food and beverage packaging and processing applications
- Helps provide protection under harsh conditions and allows for extended re-lubrication or maintenance intervals.
- Excellent oil film retention property when temperature rises the grease bleeds oil and when temperature drops, the free oil returns back to the grease. Proprietary adhesive, stay-in-place formula helps seal out contaminants & extend lubrication intervals.
- Low consumption & Immediate monetary savings.
- Extends bearings life and gives longer relubrication intervals.
- High protection against seizure and wear, avoiding expensive repairs.
- Excellent flow and pump-ability for automatic centralized and Individualized systems.
- Thermally stable, can withstand high shock loads, and minimizing metal to metal contact.

APPLICATION SEGMENT

| STEEL SEGMENT | PAPER & PULP SEGMENT | TEXTILE SEGMENT |
|--|--|---|
| Rolling Bearings Grinding Mills / Ball Mills | Roller Bearings Digester – Chemical pulping | Top and Bottom Rollers Speed Frame / Ring Frame |
| Rotor Bearings (Roller Bearings) Coke Oven Plant | Roller Bearings Bleacher – Chemical pulping | Drying Cylinder Bearings Sizing |
| Slide Tracks Sintering Machine | Wire Press / Screw type Press Dewatering Presses | Fan Bearings Stenter Machine/Dyeing/Finishing |
| Roller Bearings Billet Mould / Hot metal car wheels | Breast Roll / Suction Roll / Other Rolls Wet end – Paper Manufacturing | |
| Roller Bearings – Ladles / Arc Furnaces Steel Melting Shop | Roller Bearings in Steam Head Dry end – Paper manufacturing | |
| Roller Bearings - Ladle Turret/Torch Cutter Continuous Casting Machine | Drying Cylinders / Calendar Rolls Dry end – Paper manufacturing | |
| Roller Bearings – Work Rolls / Pre-heating Hot Rolling Mill | Soot Blower / Flue gas fan Chemical Recovery System | |

PROPERTIES OF SYNTHETIC POLYTERM GREASE

| ISO grades | 100 | 220 | 220 | 220 | 460 | 460 |
|--------------------------|--|------|------|------|------|------|
| NLGI Grade | 2.5 | 00 | 1 | 2 | 1 | 2 |
| Thickener | Synthetic Polyurea | | | | | |
| Colour & Appearance | Green, Blue or Beige / Smooth, buttery & Tacky | | | | | |
| Solid Lubricants | Mox-Active + PAO Ester | | | | | |
| Base oil Type | Synthetic oil (PAO) | | | | | |
| Viscosity, Cst @ 40°C | 100 | 220 | 220 | 220 | 460 | 460 |
| Work Penetration | 250 | 415 | 325 | 280 | 325 | 280 |
| Drop Point | 320 | 320 | 320 | 320 | 320 | 320 |
| Four Ball Weld Load kgs | +250 | +250 | +250 | +250 | +315 | +315 |
| Operating Temperature °C | -40°C to 200°C | | | | | |

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