

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

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### DESCRIPTION:

**SYNTH 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 with 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.

### APPLICATIONS INDUSTRY:

- **SYNTH POLYTHERM-2.5 100** grease is recommended for 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.
- **SYNTH 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.
- **SYNTH 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.

## 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 & 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 load carrying capability helps to reduce bearing wear under heavy loads
- Excellent Water Resistance and corrosion protection helps reduce lubricant consumption and increase bearing protection where water wash downs are common, highly loaded bearings in water, helps reduce rust and corrosion extends equipment life.
- 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

## PROPERTIES OF SYNTH POLYTHERM

|                          |                         |      |      |      |      |      |
|--------------------------|-------------------------|------|------|------|------|------|
| ISO grades               | 100                     | 220  | 220  | 220  | 460  | 460  |
| NLGI Grade               | 2.5                     | 00   | 1    | 2    | 1    | 2    |
| Thickener                | Synthetic Polyurea      |      |      |      |      |      |
| Colour &                 | Green, Blue or Beige    |      |      |      |      |      |
| Appearance               | Smooth, buttery & Tacky |      |      |      |      |      |
| 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          |      |      |      |      |      |

### POWERMAXX LUBE INDIA

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