

POLYTHERM-100 & 460 (Polyurea Semi-Synthetic Grease)

DESCRIPTION:

POLYTHERM - 100 & 460 is high performance long life polyurea grease suitable for applications in wide range of industrial applications. This grease is formulated with high viscosity & quality semi-synthetic base oil stocks engineered with special EP additives which gives outstanding thermal & superior shear stability, excellent high temperature capabilities, provide strong anti-oxidant, ant-wear, excellent water resistance properties. It also gives excellent lubrication for extended bearings life and gives longer relubrication interval periods over a wide range & high temperature.

APPLICATIONS INDUSTRY: Sugar Industry, Steel, Paper, Cement mill, Chemical plants, Textiles, Water pumps, Wind Mill, Power generation & Energy plants operated at high temperatures where grease is exposed to very wet conditions applications.

- **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.
- **POLYTHERM-1, 2 460:** grease is recommended for **Steel 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. **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 and Bottom Rollers Speed Frame / Ring Frame, Drying Cylinder Bearings Sizing, Fan Bearings Stenter Machine/Dyeing/Finishing.

FEATURES AND BENEFITS

- Resistant to Alkalis, Acids, Chemicals, 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.
- Excellent water resistant, Maximum temperature for prolonged usage is 200 Celsius

PROPERTIES OF POLYTHERM GREASE

ISO grades	100	460
NLGI Grade	2.5	1, 2
Thickener	Synthesized Polyurea	
Colour & Appearance	Green, Blue or Beige	
Base oil Type	Semi-Synthetic Oil	
Viscosity, Cst @ 40°C	100	460
Work Penetration	250-260	265-340
Drop Point	+320	+320
Four Ball Weld Load kgs	+250	+315
Operating Temperature °C	-20°C to 200°C	-20°C to 200°C

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