

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

DESCRIPTION:

POLYTHERM-100, & 460 is high performance long life polyurea grease suitable in wide range of industrial applications. This grease is formulated with high viscosity & quality synergistic base oil stocks engineered with synthetic (PAO) ester additives with special white solid lubricants Mox-Active a German technology EP additive creates a passive film on friction surfaces before friction occurs, an extremely low coefficient of friction even under extreme pressures. 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, Chemical, Textiles, 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.

SYNTH POLYTHERM-1 & 2 460: grease is recommended for **Steel Segment - Grinding Mills, Ball Mills, Rotor Bearings (Roller Bearings) Coke Oven Plant, Slide Tracks Sintering Machine, Billet Mould / Hot metal car wheels, Roller Bearings -Ladles, Arc Furnaces Steel Melting Shop, Roller Bearings - Ladle Turret/Torch Cutter Continuous Casting Machine, Work Rolls, Preheating Hot Rolling Mill. Paper & Pulp Segment - 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, 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, steam contaminated environments.
- Extreme pressure properties to perform under high speed, high temperature & high shock loads.
- Excellent water resistant, stability and outstanding protection against rust and corrosion.
- Excellent oil film retention property when temperature rises the grease bleeds oil and when temperature drops, the free oil returns back to the grease. Allows use in food and beverage packaging and processing applications. Maximum temperature for prolonged usage is 200 °C.
- Proprietary adhesive, stay-in-place formula helps seal out contaminants & extend lubrication intervals.
- Excellent flow and pump-ability for automatic centralized and Individualized systems.

PROPERTIES OF POLYTHERM GREASE

ISO Grades	100	460
NLGI Grade	2.5	1, 2
Thickener	Synthesized Polyurea	
Colour & Appearance	Green, Blue or Beige / Smooth, buttery & Tacky	
Solid Lubricants	Mox-Active + PAO Ester	
Base oil Type	Synergistic base oils	
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	

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