

SYNTH POLYTHERM-1.5 460 & 680 WT

(Wind Turbine Main Shaft Bearing Synthetic Grease)

DESCRIPTION

SYNTH POLYTHERM-1.5 460 & 680 WT is synthetic grease formulated with advanced technology contains Polyurea blended with high viscosity synthetic base oil **PAO (PolyAlphaOlefin)** for structural stability and resistance to withstand water for better high load carrying, antioxidants, anti-corrosion and special EP additives along with compatible friction modifier to deliver outstanding performance in severe application areas like Yaw, Pitch and Main Shaft bearings of Wind Turbines, Steel, Paper & etc. Provide a heavier Oil film for applications with excessive high shock loads at slow & medium speed applications working under low temperatures. It has excellent pumpability-Reliable lubrication of bearings using centralized grease systems or grease dispensers. These greases are specially developed for application areas where highly stressed anti-friction bearings & heavy duty rollers bearings operating under extensive water contact or presence is there and gives outstanding performance.

PAO based synthetic greases are composed of 100% synthetic base oil which provides longer lubrication.

APPLICATIONS

- Versatile applications recommended in Yaw, Pitch and Main Shaft bearings of Wind Turbines, Concaster bearings, Steel Mills, Paper Mill bearings (dry end) Cement Mill journals, Chemical & Textiles Plants, etc.
- **SYNTH POLYTHERM-1.5 460 & 680 WT** grease lubricating highly stressed anti-friction bearings and heavy duty rollers running operating under the environments at slow or medium rotation speeds, under heavy shock loads and with occasional impact-type loads.
- Always avoid contamination of the grease by dust and/or dirt when applying. Preferably use a pneumatic pump system or cartridges.

FEATURES, BENEFITS & ADVANTAGES

- Excellent extreme-pressure protection load-carrying ability for equipment protection under heavy shock loads & minimizing metal to metal contact with excellent high temperature oil bleed control
- Excellent water resistance – means the lubricating film is not washed off even in the presence of water.
- Superior mechanical stability – helps reduce product consumption in high volume applications.
- High dropping point – withstands breakdown in high temperature applications.
- Resists oxidation and prevents corrosive activity on bearings in aggressive process water environments.
- Excellent protection against wear, rust and corrosion- Reduced downtime and maintenance costs
- Excellent pumpability-Reliable lubrication of bearings- using centralized grease systems or dispensers.

PROPERTIES

SPECIFICATIONS	SYNTH POLYTHERM-1.5 460 WT	SYNTH POLYTHERM-1.5 680 WT
NLGI	1.5	1.5
Thickener type	Synthesized Polyurea	Synthesized Polyurea
Color & Appearance	Beige, Smooth, buttery & Tacky	Beige, Smooth, buttery & Tacky
Viscosity @ 40°C Cst	Synthetic Oil - 460 Cst	Synthetic Oil - 680 Cst
Worked Penetration	295-310	295-310
Dropping Point	280	280
4 Ball EP Weld Load in kgs	800	800
Operating Temperature	-40°C to +160°C	-40°C to +160°C
Water wash out	0.1 % max	0.1 % max
Copper Strip Corrosion	1a	1a

Additional information: In order to minimize potential incompatibilities when converting to new grease, all previous lubricant should be removed as much as possible prior to operation. During initial operation, lubrication intervals should be monitored closely to ensure all previous lubricant is purged.

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