

SYNTH POLYTHERM-1.5 30 (XG-293) Navy Defence & Aerospace grease

DESCRIPTION: SYNTH POLYTHERM-2 30 grease is premium quality synthesized polyurea thickened with Microgel based grease formulated with advanced chemical with special EP additives and combination of low viscosity synthetic hydrocarbon base oil for an extensive range of applications including low temperatures, high temperatures and high loads. It is also fortified with a synergistic blend of additives such as rust, corrosion inhibitors and antioxidants to provide unusually good protection against frottage and tribocorrosion. It provides good water resistance, excellent wear protection. This grease retains its consistency under high temperature and shear conditions over extended periods of operation. It has good shock and heavy load characteristics and its very high level of mechanical and thermal stability prevents deterioration and formation of deposits. The useful operating temperature range is -55°C to +180°C.

APPLICATIONS

- SYNTH POLYTHERM-1.5 30 is especially recommended for wide range of applications include aircraft wheel bearings, plain and rolling element bearings at low to high speeds and splines, screws, engine accessories, control systems, actuators, screw-jacks, servo mechanisms and electric motors, helicopter rotor bearings, instruments, airframe lubrication, hinge pins, static joints, worm gears, landing gears and other mechanisms where low wear and low lubricant friction losses are required.
- It provides minimum resistance to starting at extreme low temperatures down to -55°C, as well as satisfactory performance for extended periods in high speed bearings operating at temperatures up to 180°C.

ADVANTAGES & BENEFITS:

Performance standard meets: DEF STAN 91-52/1, JSD XG-293, NATO G-395

- Multipurpose application for navy Defence & aerospace grease.
- Protection against rust & corrosion, resistance to water washout for equipment protection.
- Extended bearing life, Increases Re-Lubrication interval and also reduce energy consumption.
- Good pump ability in centralized systems, Effective leakage control.
- Highly resistance to water washes out - Better bearing protection & lower consumption.

PROPERTIES OF SYNTH POLYTHERM-1.5 30

Oil type	Synthetic Hydrocarbon
Colour & Appearance	Smooth, Microgel & Amber
Thickener type	Synthesized Polyurea
Base Oil viscosity @40°C mm ² /s	32
Base Oil viscosity @100°C mm ² /s	5.8
Base Oil viscosity @-40°C mm ² /s	7450
Operating Temperature Range °C	-55°C to +180°C
Dropping point	+305
Worked penetration	305
Evaporation loss 22 hrs	1:1
Oil separation 30 hrs @ 100°C	3.0
Water washout	2.0
Anti-friction bearing performance	400+
Load carrying capacity in kgs	40
Copper corrosion 24 hrs @100 °C	pass
Bomb Oxidation pressure drop 100 hrs & 500 hrs	14 & 21
Torque at -54°C (starting / 5 min)	2.66 / 0.04
Emcor Test	0:0
Additives	Anti: wear, rust, corrosion & oxidant

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