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ExonMobil

Mobilgrease 28

ExxonMobil Aviation , Chile Synthetic Aviation Grease

Product Description

Mobilgrease 28 is a supreme performance, wide-temperature, antiwear grease designed to combine the unique features of a polyalphaolefin (PAO) synthetic bas with an organo-clay (non-soap) thickener. Its consistency is between an NLGI No. 1 and No. 2 grease. It offers outstanding performance over a wide temperature The wax-free nature of the synthetic base fluid, together with its high viscosity index compared to mineral oils, provide excellent low temperature pumpability, ve starting and running torque, and can help reduce operating temperatures in the load zone of rolling element bearings.

The clay thickener gives Mobilgrease 28 a high dropping point value of around 300°C, which provides excellent stability at high temperatures. Mobilgrease 28 water washing, provides superior load-carrying ability, reduces frictional drag, and prevents excessive wear. Tests show that Mobilgrease 28 lubricates effectively element bearings under conditions of high speeds and temperatures. Mobilgrease 28 has also shown excellent ability to lubricate heavily loaded sliding mechanisms as wing flap screw jacks.

For more than 30 years, Mobilgrease 28 has been the multi-purpose grease of choice for military and related aviation applications, worldwide.

Features and Benefits

A particular requirement of aviation greases is the need to resist high temperature stresses, while providing excellent starting and low torque at low-temperature. To this combination of needs ExxonMobil product formulation scientists chose synthetic hydrocarbon base oils for Mobilgrease 28 because of their low volatility, excell thermal/oxidative resistance, and superb low-temperature capability. Formulators chose specific thickener chemistry and a proprietary additive combination which maximize the benefits of the synthetic base oils.

Mobilgrease 28 meets the requirements of key military and commercial aviation specifications and has built up a superb reputation for performance and reliability a users around the world.

Mobilgrease 28 provides the following advantages and potential benefits:

Features	Advantages and Potential Benefits
High viscosity index (VI) synthetic base stock with no wax content	Allows wide operating temperature range - outstanding high and low temperature performance. Provides thicker fluid films protecting against wear of equipment parts operating at temperature. Causes low resistance during start-up at very low temperatures.
Excellent protection against wear and corrosion	Superb bearing protection and helps extend bearing life and reduce bearing replacement costs
Extreme-pressure protection characteristics	Avoids excessive wear, even under shock load
High thermal/oxidative stability	Long relubrication intervals
High resistance to water washout	Maintains excellent grease performance in adverse weather and other water-exposure condition

Applications

Mobilgrease 28 is designed for the lubrication of plain and rolling bearings at low to high speeds, and splines, screws, worm gears, and other mechanisms wher friction reduction, low wear, and low lubricant friction losses are required. The recommended operating temperature range is -54°C to 177°C (-65°F to 350°F appropriate relubrication intervals.

Mobilgrease 28 is recommended for use in landing wheel assemblies, control systems and actuators, screw jacks, servo devices, sealed-bearing motors, osc

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bearings, and helicopter rotor bearings on military and civil aircraft. Subject to equipment manufacturer approvals, it can also be used on naval shipboard at machinery and where superseded specifications MIL-G-81322 (WP), MIL-G-7711A, MIL-G-3545B, and MIL-G-25760A are recommended.

Mobilgrease 28 is also recommended for industrial lubrication, including sealed or repackable ball and roller bearings wherever extreme temperature condition speeds, or water washing resistance are factors. Typical industrial applications include conveyor bearings, small alternator bearings operating at temperatures near (350°F), high-speed miniature ball bearings, and bearing applications where oscillatory motion, and vibration create problems.

Mobilgrease 28 is qualified by the U.S. Military under Specification MIL-PRF-81322, General-Purpose, Aircraft, and Specification DOD-G-24508A (Navy) for ship auxiliary machinery. It is a U.S. Military Symbol WTR and NATO Code Number G-395 grease.

Specifications and Approvals

This product has the following approvals:
NATO G-395
MIL-PRF-81322G
MIL-PRF-24508B

Properties and Specifications

Property	
Grade	NLGI 1.5
Base Oil Viscosity of Greases @ 100 C, mm2/s, AMS 1700	5.7
Base Oil Viscosity of Greases @ 40 C, mm2/s, AMS 1697	29.3
Bomb Oxidation, Pressure Drop, 100 h, kPa, ASTM D942	PASS
Color, Visual	Dark Red
Copper Strip Corrosion, 24 h, 100 C, Rating, ASTM D4048	1B
Dirt, # particles 25u to 74 u, FTM 3005	Pass
Dirt, # particles 75u or larger, FTM 3005	0
Dropping Point, °C, ASTM D2265	307
Evaporation Loss, 22 h, 177 C, mass%, ASTM D2595	6
Falex Block on Ring Oscillating Wear Scar, 35k cycles, 90 deg angle, Al/bronze block, mm, ASTM D3704	PASS
Four-Ball Wear Test, Scar Diameter, mm, ASTM D2266	0.6
Load Carrying Capacity, Load-Wear Index, kgf, ASTM D2596	40
Low Temperature Torque, Running @ -54 C, 60 min, Nm, ASTM D1478	0.05
Low Temperature Torque, Starting @ -54 C, Nm, ASTM D1478	0.43
Lubrication Life @ 177 C, h, ASTM D3336	PASS
NBR-L, AMS 3217/2 Compat, 70C 158 h, vol %, FTM 3603	6

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Property	
Oil Separation, 30 h @ 177 C, mass%, ASTM D6184	3.5
Oxidation Stability, Pressure Drop, 500 h, kPa, ASTM D942	PASS
Pen Worked X 100,000, 1/16" holes, 0.1 mm, FTM 313	303
Penetration, Worked, 60X, 0.1 mm, ASTM D217	293
Rust Protection, 48 h @ 125 F, Rating, ASTM D1743	PASS
Texture, VISUAL	Smooth, buttery
Thickener, wt%, AMS 1698	Clay
Water Washout, Loss @ 41 C, wt%, ASTM D1264(mod)	1

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.as All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its subsidiaries unless indicated otherwise.

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Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly

