

## ExxonMobil Mobilgrease 28

Category : Fluid , Lubricant , Clay Gellant , Polyalphaolefin (PAO)

### Material Notes:

Mobilgrease 28 is a supreme performance, wide-temperature, antiwear grease designed to combine the unique features of a polyalphaolefin (PAO) synthetic base fluid 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 range. The wax-free nature of the synthetic base fluid, together with its low coefficient of traction compared with mineral oils, provide excellent low temperature pumpability, very low starting and running torque, and can 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 resists water washing, provides superior load-carrying ability, reduces frictional drag, and prevents excessive wear. Tests show that Mobilgrease 28 lubricates effectively rolling element bearings under conditions of high speeds and temperatures. Mobilgrease 28 has also shown superior ability to lubricate heavily loaded sliding mechanisms, such 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. 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 where high 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) with appropriate relubrication intervals. Mobilgrease 28 is recommended for use in landing wheel assemblies, control systems and actuators, screw jacks, servo devices, sealed-bearing motors, oscillating bearings, and helicopter rotor bearings on military and civil aircraft. Subject to equipment manufacturer approvals, it can also be used on naval shipboard auxiliary machinery and where superseded specifications MIL-G-81322 (WP), MIL-G-7711A, MIL-G-3545B, and MIL-G-25760A are recommended. Mobilgrease 28 also is recommended for industrial lubrication, including sealed or repackable ball and roller bearings wherever extreme temperature conditions, high speeds, or water washing resistance are factors. Typical industrial applications include conveyor bearings, small alternator bearings operating at temperatures near 177°C (350°F), high-speed miniature ball bearings, and bearing applications where oscillatory motion, and vibration create problems. Mobilgrease 28 is of quality level U.S. Military Specification MIL-PRF-81322, General-Purpose, Aircraft, and U.S. Military Specification DOD-G-24508A (Navy) for shipboard auxiliary machinery. It is a U.S. Military Symbol WTR and NATO Code Number G-395 grease.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-Mobilgrease-28.php](http://www.lookpolymers.com/polymer_ExxonMobil-Mobilgrease-28.php)

Physical Properties	Metric	English	Comments
Kinematic Viscosity at 40°C (104°F)	29.3 cSt	29.3 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	9.2 cSt	9.2 cSt	ASTM D445
Oxidative Stability	100 hour	100 hour	Pressure Drop of less than 83 kPa @ 99°C; ASTM D942
	500 hour	500 hour	Pressure Drop of less than 172 kPa at 99°C; ASTM D942
Evaporation Loss	6.0 %	6.0 %	22 hrs @ 177°C; ASTM D2595
Storage Temperature	38.0 °C	100 °F	6 months time; FTM 3467

Mechanical Properties	Metric	English	Comments
Four Ball Extreme Pressure, Load Wear Index	42	42	ASTM D2596
Four Ball Wear	0.500 mm	0.0197 in	ASTM D2266
Penetration	295	295	60 Stroke Worked @ 25°C, mm/10; ASTM D217
	302	302	Extended Worked Penetration Stability, 100000 Strokes, mm/10; FTM 313
Oil Separation	2.5 %	2.5 %	30 hrs @ 177°C; ASTM D6184

Thermal Properties	Metric	English	Comments
Dropping Point	315 °C	599 °F	ASTM D2265

Descriptive Properties	Value	Comments
Color	dark red	
Copper Strip Corrosion, ASTM D4048	1B (max)	
Corrosion Prevention, ASTM D1743	pass	48 hrs @ 125°F
Grease Life, DIN 51821 (FE-9), hours	400 (min)	@ 177°C
Low Temperature Torque, ASTM D1478, g-cm	800	@ -54°C, Running after 1 hr
	8500	@ -54°C, Starting
Oscillation Friction and Wear, mm	6.35 (max)	Scar Dia, 35000 cycles, 90° angle, Aluminum Bronze Block
Particle Count, 25-50 microns	pass, 25-74 microns, dirt count, particles/mL, FTM 3005, 0 75 micron or larger	
Rubber Swell, %	6	L Type Synthetic, 1 week at 70°C
Soap/Thickener Type	clay (non-soap)	
Structure	smooth, buttery	
Water Washout, ASTM D1264, wt%	1	1 hr @ 41°C

**Contact Songhan Plastic Technology Co.,Ltd.**

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