

ExxonMobil Mobilgrease 27

Category : Fluid , Lubricant , Lithium Gellant

Material Notes:

Mobilgrease 27 is a high performance, aviation grease designed to combine the unique features of a synthetic ester base fluid with a lithium soap thickener. Its consistency is between an NLGI No. 1 and No. 2 grease. It offers outstanding performance over a wide temperature range. The thickener system provides excellent structural stability and resistance to water wash. The properties of the base oil, combined with selected additives, provide outstanding protection against rust, corrosion, wear and high temperature degradation. The synthetic base oil allows for low-temperature mobility/pumpability and very low starting and running torque values. Mobilgrease 27 is a true multipurpose aviation grease intended for use in highly loaded gears and actuators as well as instruments, high speed bearings (though not recommended for wheel bearings), and general airframe lubrication over temperatures from – 100°F to 250°F. Mobilgrease 27 is also an excellent choice for applications where a smooth, low noise, wide temperature range lubricating grease is required, such as in miniature precision bearings. Mobilgrease 27 contains a synthetic ester and should not be used in contact with incompatible seal materials. It may soften natural rubber, neoprene, certain electrical insulation materials and paints. Mobilgrease 27 meets the requirements and is approved against U.S. Military Specification MIL-PRF-23827, Grease, Aircraft and Instrument, Gear and Actuator Screw, Type I (Grease thickened with metallic soap). It is listed in the QPL-23827 Qualified Products List. In addition, Mobilgrease 27 may be used in all applications where MIL-G-3278, MIL-G-7118, MIL-G-7421, MIL-G-15793 and MIL-G-23827 are specified, subject to approval by the aircraft manufacturer. It is a NATO Code Number G-354 grease.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Mobilgrease-27.php

Physical Properties	Metric	English	Comments
Kinematic Viscosity at 40°C (104°F)	9.2 cSt	9.2 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	2.7 cSt	2.7 cSt	ASTM D445
Oxidative Stability	100 hour	100 hour	Pressure Drop of less than 70 kPa @ 99°C; ASTM D942
	500 hour	500 hour	Pressure Drop of less than 105 kPa at 99°C; ASTM D942
Evaporation Loss	1.2 %	1.2 %	22 hrs @ 100°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	33	33	ASTM D2596
Penetration	275	275	Unworked, 25°C; ASTM D217
	290	290	60 Stroke Worked, 25°C; ASTM D445
	325	325	Extended Worked Penetration Stability, 100000 Strokes, mm/10; FTM 313

Mechanical Properties	Metric	English	Comments
Oil Separation	2.3%	2.3%	30 hrs @ 100°C; ASTM D6184

Thermal Properties	Metric	English	Comments
Dropping Point	200 °C	392 °F	ASTM D2265

Descriptive Properties	Value	Comments
Color	light tan	
Copper Strip Corrosion, ASTM D4048	1B (max)	
Corrosion Prevention, ASTM D1743	pass	48 hrs @ 125°F
Gear Wear, FTM 335	pass	
Grease Life, DIN 51821 (FE-9), hours	1000 (min)	@ 121°C
Low Temperature Torque, ASTM D1478, g-cm	408	@ -100°F, Running after 1 hr
	4080	@ -100°F, Starting
Particle Count, 25-50 microns	0, 25-74 microns, dirt count, particles/mL, FTM 3005, 0 75 micron or larger	
Soap/Thickener Type	lithium	
Structure	smooth	
Water Washout, ASTM D1264, wt%	13	1 hr @ 38°C

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