

## ExxonMobil 1 Mobiltemp Series

Category : Fluid , Lubricant , Polyalphaolefin (PAO)

### Material Notes:

Mobiltemp Series greases are high performance clay-thickened products designed for the lubrication of plain and antifriction bearings operating at low speed and high temperature or under cycling conditions from ambient to high temperatures. These greases use a clay thickener, which, unlike traditional soap thickeners, do not soften at high temperatures. They are based on a high quality, high viscosity mineral oil and are specially formulated to provide: low volatility and excellent resistance to oxidation at high temperatures, resistance to water washout and good anti-wear performance under heavy loads and low speeds. Mobiltemp 1 and 78 are NLGI Grade 1 greases, and Mobiltemp 2 is an NLGI 2 Grade. Mobiltemp 78 also contains molybdenum disulphide for added anti-wear protection. Mobiltemp Series greases are particularly suited for high temperature applications, and are very resistant to water or steam contamination. These greases have excellent resistance to changes in consistency under both high temperature and cyclic conditions of heating and cooling. Even with severe working under such conditions, they will not soften or harden significantly. Because they use low volatility base oils, these greases resist hardening when the grease is held at high temperatures for long periods. Mobiltemp Series greases have excellent resistance to water washing and, under humid conditions, can absorb about its own weight of water without any major change in structure or consistency. Mobiltemp Series have good flow properties and can be used with centralised grease systems down to 10°C, even with long distribution lines. With its additional anti-wear additization, Mobiltemp 78 is particularly suitable for the lubrication of sliding machine elements subject to limited or slow motion or shock loading. With their excellent track record of superior performance in critical high temperature applications, Mobiltemp Series greases have become the products of choice for users around the world. Mobiltemp 1 and Mobiltemp 2 are recommended for the lubrication of plain and antifriction bearings or sliding machine elements in applications operating at low speeds and high temperatures or under cycling conditions from ambient to high temperatures. The grease will not soften and leak under high temperature conditions or harden excessively on cooling. The recommended operating temperature range is 0 to 170° C, with even higher temperatures for short periods, with appropriate relubrication intervals. Mobiltemp 78 is recommended for similar applications to Mobiltemp 1 but the presence of molybdenum disulphide makes it particularly suitable for the lubrication of sliding machine elements subject to long relubrication intervals, limited motion or shock loading. The recommended operating temperature range is 0 to 170° C. Specific applications for Mobiltemp greases include: Oven conveyor chain bearings; Kiln car wheel bearings; Glass manufacture conveyer belt roller bearings; Cams, ways and other sliding machine elements (especially Mobiltemp 78)

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-1-Mobiltemp-Series.php](http://www.lookpolymers.com/polymer_ExxonMobil-1-Mobiltemp-Series.php)

Physical Properties	Metric	English	Comments
Kinematic Viscosity at 40°C (104°F)	460 cSt	460 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	31.7 cSt	31.7 cSt	ASTM D445

Mechanical Properties	Metric	English	Comments
Four Ball Extreme Pressure, Load Wear Index	50	50	ASTM D2596
Four Ball Extreme Pressure, Weld Load	200 kg	441 lb (mass)	ASTM D2596

Four Ball Wear Mechanical Properties	0.500 mm Metric	0.0197 in English	ASTM D2266 Comments
Penetration	-60.0	-60.0	Penetration Change, Wet Roll Stability, 0.1 mm; ASTM D1831
	50	50	Penetration Change, 60X to 100000X, mm/10; ASTM D217
	325	325	Worked, 25°C; ASTM D217

Thermal Properties	Metric	English	Comments
Dropping Point	300 °C	572 °F	ASTM D2265

Descriptive Properties	Value	Comments
Color	amber	
Copper Strip Corrosion, ASTM D4048	1A	
Soap/Thickener Type	clay	

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