

ExxonMobil 27 Mobil Mist Lube Series

Category : Fluid , Lubricant

Material Notes:

Mobil Mist Lube Series are extra high performance oils designed for the oil-fog or mist-lubrication of machine components such as slideways, bearings, gears, chains etc. They are formulated from high quality, solvent refined base stocks and a unique additive system designed for optimum reclassifying properties. They have a high resistance to oxidation and good extreme pressure and anti-wear properties. The products have enhanced surface wetting capabilities and they reclassify (or agglomerate) readily from a mist to a liquid when the mist is subjected to extreme turbulence or is impinged onto a surface at high velocity. This allows a lubricating film to form on bearings and gears and prevents stray mist from escaping through narrow apertures into the atmosphere. The four viscosity grades in the Mobil Mist Lube Series, ranging from ISO VG 32 to 460, allow the machine designer to choose the product most suitable for proper mist lubrication of machine elements. The heavier grades are used on ways, gears, and slow-speed, heavily loaded bearings, while the lower viscosity grades are used in high-speed bearings. Mobil Mist Lube Series oils are designed for use in all oil mist lubrication systems. Such systems work by dispersing very small droplets of oil in smoothly flowing air, distributing the oil mist to the points of application and mechanically condensing the mist, causing the oil to impinge on and wet the surfaces to be lubricated. The higher viscosity Mobil Mist Lube grades may require thermal misting devices to form proper dispersions when ambient temperatures are moderate or low. Mobil Mist Lube 24 is suitable for oil / air delivery systems such as airline oilers. Specific applications include: Industrial gearing such as cooling tower gearboxes; Slow-speed, heavily-loaded bearings (higher viscosity grades); High-speed bearings (lower viscosity grades); Machine tools, ways and screws; Process pumps, electric motors and blowers; Steam turbines and electric motors

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http://www.lookpolymers.com/polymer_ExxonMobil-27-Mobil-Mist-Lube-Series.php

Physical Properties	Metric	English	Comments
Density	0.890 g/cc @Temperature 15.6 °C	0.0322 lb/in ³ @Temperature 60.1 °F	ASTM D4052
Viscosity Measurement	95	95	Index; ASTM D2270
Kinematic Viscosity at 40°C (104°F)	100 cSt	100 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	11.2 cSt	11.2 cSt	ASTM D445

Mechanical Properties	Metric	English	Comments
Four Ball Extreme Pressure, Load Wear Index	48	48	ASTM D2783
Four Ball Extreme Pressure, Weld Load	250 kg	551 lb (mass)	ASTM D2783
Four Ball Wear	0.300 mm	0.0118 in	20 kg, 54°C, 1800 rpm, 1 hr; ASTM D4172
Timken Test	29500 g	65.0 lb	

Thermal Properties	Metric	English	Comments
Pour Point	-12.0 °C	10.4 °F	ASTM D97
Flash Point	234 °C	453 °F	ASTM D92

Descriptive Properties	Value	Comments
FZG Scuffing, DIN 5182, A/8.3/90, Fail Stage	12+	
Rust Prevention, Synthetic Sea Water	pass	ASTM D665B

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