

ExxonMobil 32 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-32-Mobil-Mist-Lube-Series.php

| Physical Properties | Metric | English | Comments |
|--------------------------------------|------------------------------------|---|-------------------|
| Density | 0.900 g/cc @Temperature 15.6 °C | 0.0325 lb/in ³ @Temperature 60.1 °F | ASTM D4052 |
| Viscosity Measurement | 100 | 100 | Index; ASTM D2270 |
| Kinematic Viscosity at 40°C (104°F) | 320 cSt | 320 cSt | ASTM D445 |
| Kinematic Viscosity at 100°C (212°F) | 25 cSt | 25 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 | -9.00 °C | 15.8 °F | ASTM D97 |
| Flash Point | 230 °C | 446 °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 |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China