



Mobil Cylinder Oils

Mobil Industrial , Singapore

Gear and Cylinder Oils

Product Description

Mobil Cylinder oils are high performance high viscosity oils designed for use in enclosed worm gears operating at moderate to high speeds and temperatures, and heavy loads, slow speeds or high temperatures demand high viscosity oils. They are also intended for use in steam engine cylinder applications. They are formulate high quality base stocks that are resistant to oxidation and thermal degradation, and the build-up of harmful deposits caused by the high operating temperatures of cylinders. They protect against rust and corrosion and provide good film strength and excellent lubricity and they are resistant to water washout.

Mobil 600W™ Cylinder Oil, Mobil 600W™ Super Cylinder Oil and Mobil™ Extra Hecla Super Cylinder Oil are additized to enhance their frictional and load-carrying properties. All four members of the product family are widely used in worm gear applications, couplings and bearings, with viscosity grade depending on operating conditions. In steam applications Mobil 600W Super Cylinder Oil is recommended for saturated and superheated steam up to a temperature of 260°C. Mobil Extra Super Cylinder Oil and Mobil Extra Hecla Super Cylinder Oil Mineral may be used with superheated steam above 260°C. Mobil Extra Hecla Super Cylinder Oil Mineral has good demulsibility. Mobil Cylinder Oils can be applied both by drip feed cups and force feed mechanical lubricating devices.

Features and Benefits

Mobil Cylinder Oils offer the following features and potential benefits:

| Features | Advantages and Potential Benefits |
|--|--|
| Excellent film integrity at high temperatures | Excellent equipment protection at high temperatures occasioned by variable load conditions, avoiding unexpected downtime and equipment replacement |
| | Provision of good sealing film round rods and in glands in steam applications |
| Excellent resistance to deposit formation at high temperatures | Resistant to deposits on areas subject to high spot temperatures, maintaining cleaner systems, requiring less maintenance |
| Excellent anti-wear and low friction properties | Additized grades give reduced wear |
| Very good water separation in absence of additives | Non-additized grade gives ready separation from condensate |
| High quality and built in performance features | Results in fewer unplanned stoppages and reduced maintenance costs |

Applications

Mobil 600W Cylinder Oil is recommended for the following applications:

- The splash lubrication of enclosed worm gears operating at moderate to high speeds and temperatures. (Mobil 600 W Cylinder Oil)
- Steam cylinders, couplings, bearings, and break-in of compressor cylinders (Mobil 600 W Cylinder Oil)
- Mobil 600W Super Cylinder Oil and Mobil Extra Hecla Super Cylinder Oil are recommended for the above applications but under higher temperature and severe conditions
- Mobil Extra Hecla Super Cylinder Mineral is recommended where ready separation from condensate is essential, for example, where exhaust steam is used in process work
- Mobil Extra Hecla Super Cylinder Mineral may also be used as a tempering oil for bath temperatures up to 290°C

Properties and Specifications

| Property | MOBIL 600 W CYLINDER OIL | MOBIL 600 W SUPER CYLINDER OIL | MOBIL EXTRA HECLA SUPER CYLINDER OIL | MOBIL EXTRA HECLA S CYLINDER OIL MINERAL |
|---|--------------------------|--------------------------------|--------------------------------------|--|
| Grade | | ISO 460 | ISO 680 | ISO 1000 |
| Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130 | 1B | 1B | 1B | 1B |
| Density @ 15.6 C, kg/l, ASTM D4052 | 0.90 | 0.91 | 0.92 | 0.92 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 282 | 282 | 282 | 288 |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 28.0 | 30.5 | 35.8 | 42 |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445 | 375 | 460 | 680 | 1000 |
| Pour Point, °C, ASTM D97 | -9 | -6 | 0 | 3 |
| Viscosity Index, ASTM D2270 | 95 | 95 | 85 | 80 |

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.as>
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