



Syncon[®] Mist Oil

Syncon Mist Oil is a premium quality, synthetic, extreme-pressure gear oil developed for use in oil mist lubrication systems for enclosed industrial gearboxes operating under extreme-temperature conditions.

Syncon Mist Oil is available in one viscosity grade: ISO 100 (AGMA 3 EP). It is formulated with synthetic polyalphaolefin (PAO) base oils, a misting agent and specially tailored additives that provide extreme-pressure properties and rust and corrosion inhibition. It has outstanding oxidation resistance and thermal stability at high temperatures to help minimize deposit formation, and has high load-carrying capacity for protection against scuffing and wear. The misting agent helps reduce fogging and stray mist.

Applications

Syncon Mist Oil is recommended for use in oil mist lubrication systems for:

- Lightly to moderately loaded enclosed industrial gearboxes with spur, helical, herringbone or bevel gears
- Chain drives
- Plain and rolling element bearings in rolling, rod and wire mills

Syncon Mist Oil meets the performance requirements of:

- AGMA 9005-E02 (formerly 250.04)
- U.S. Steel 224

Note: Syncon[®] Mist Oil is **not** recommended for use in worm gear drives with bronze or brass bull gears, since these types of gears require heavier viscosity lubricants with oiliness agents.

Features/Benefits

- Outstanding oxidation resistance and thermal stability at high temperatures
- Excellent low-temperature fluidity
- High load-carrying capacity
- Reduces stray mist
- Low-fogging tendency
- Protects against scuffing and wear
- Protects against rust and corrosion

**Synthetic PAO-
Based Extreme-
Pressure Gear Oil
For Mist Lubrication**

Contact Information

**U.S. Customer
Service:
1-800-822-6457**

**U.S. Technical
Services Hot Line:
1-800-766-0050**

**International:
+1-832-486-3363**

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Syncon[®] Mist Oil Typical Properties

| | |
|---|-------------|
| ISO Grade | 100 |
| AGMA Grade | 3 EP |
| Density, g/cm ³ @ 15.6°C (60°F) | 0.862 |
| Density, lbs/gal @ 15.6°C (60°F) | 7.18 |
| Color, ASTM D1500 | L 0.5 |
| Flash Point (COC), °C (°F) | 274 (525) |
| Pour Point, °C (°F) | -36 (-33) |
| Viscosity, | |
| cSt @ 40°C | 93.0 |
| cSt @ 100°C | 13.2 |
| SUS @ 100°F | 477 |
| SUS @ 210°F | 72 |
| Viscosity Index | 130 |
| Acid Number, ASTM D974, mg KOH/g | 0.22 |
| Copper Corrosion, ASTM D130 | 1a |
| Demulsibility, ASTM D1401, minutes to pass | 10 |
| Foam Test, ASTM D892 | Pass |
| Four-Ball EP, ASTM D2783, Weld Load, kgf | 250 |
| Four-Ball Wear, ASTM D4172, Scar Diameter, mm | 0.33 |
| Oxidation Stability, RPVOT, ASTM D2272, minutes | 1,750 |
| Rust Test, ASTM D665 A&B | Pass |

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Due to continual product research and development, the information contained herein is subject to change without notification.

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