



Syncon[®] Mist Oil

Syncon Mist Oil is a premium quality, synthetic, extreme-pressure (EP) 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**

**E-mail address:
lubricants@
conocophillips.com**

<http://lubricants.conocophillips.com>

600 N. Dairy Ashford • 2W9000 • Houston, TX 77079



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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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