



Syncon® Mist Oil

Phillips 66® Syncon Mist Oil is a premium quality, synthetic, extreme-pressure (EP) gear lubricant developed for use in oil mist lubrication systems for enclosed industrial gear drives operating under extreme-temperature conditions.

Syncon Mist Oil is formulated with synthetic polyalphaolefin (PAO) base oils, a misting agent, and specially tailored additives that provide extreme-pressure properties plus rust and corrosion protection. It has outstanding oxidation resistance and thermal stability at high temperatures to 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 gear drives 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 requirements of the following industry specifications:

- ANSI/AGMA Standard 9005-F16, Anti-Scuff Lubricants (AS)
- 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
Industrial Gear
Lubricant for
Mist Lubrication
Systems**

**KEEPING THE
WORLD
RUNNING
SMOOTHLY.**





Syncon® Mist Oil

Typical Properties	
ISO Grade	100
AGMA Grade (obsolete)	3 EP
AGMA Classification	AS
Specific Gravity @ 60°F	0.862
Density, lbs/gal @ 60°F	7.18
Color, ASTM D1500	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	72.2
Viscosity Index	141
Acid Number, ASTM D974, mg KOH/g	0.22
Copper Corrosion, ASTM D130, 48 hrs @ 80°C	1a
Demulsibility, ASTM D1401, minutes to pass	10
Four-Ball EP, ASTM D2783, Weld Load, kgf	250
Four-Ball Wear Test, ASTM D4172, Scar Diameter, mm	0.33
Oxidation Stability, S-200 ASTM D2893B, viscosity @ 100°C increase, %	2.5

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.

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Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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