UNITED OIL COMPANY
PITTSBURGH, PA U.S.A

SUPPLYING QUALITY INDUSTRIAL LUBRICANTS FOR THE METALS INDUSTRY SINCE 1906

UNITED MIST OILS

10-11, EP2, EP21

UNITED 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.

UNITED 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

UNITED 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 UNITED Mist Oil meets the requirements of the following industry specifications:
- ANSI/AGMA Standard 9005-E02, Anti-Scuff/Anti-Wear (EP) Oils
- U.S. Steel 224

Note: UNITED 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

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Typical Properties	
ISO Grade	**100**
AGMA Grade	**3 EP**
Specific Gravity @ 60°F	0.862
Density, lbs/gal @ 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	72.2
Viscosity Index	141
Acid Number, ASTM D974, mg KOH/g	0.22
Copper Corrosion, ASTM D130	1a
Demulsibility, ASTM	10
Four-Ball EP, ASTM D2783, Weld Load, kgf	250
Four-Ball Wear, ASTM D4172, Scar Diameter, m	0.33
Oxidation Stability, RPVOT, ASTM D2272, minutes	1,750
Rust Test, ASTM D665 A&B	Pass

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