

CORTIS MS



STEEL MILL
LUBRICATION



TOTAL

Premium ashless antiwear circulating oil

APPLICATIONS

Antiwear oils for all types
of moving parts

- CORTIS MS oils are **multi-purpose** mineral oil based antiwear circulating oils.
- CORTIS MS meets the technical requirements of Morgan (Morgoil) and Danieli hydrodynamic bearings using in rolling mills.

SPECIFICATIONS

OEM Specifications

- Danieli BGV and ESS bearings
- Morgoil lubricant and Mogoil Advanced Lubricant (Morgan Bearing)

ADVANTAGES

Long fluid life and high
operating reliability

- Excellent oxidation and thermal stability for extended drains
- Excellent water separation at both high and low temperatures
- Very good anti-wear protection
- Non-EP lubricant offers excellent corrosion protection at high temperature
- Ashless formula with high hydrolytic stability prevents deposits and maintains excellent filterability.

TYPICAL CHARACTERISTICS CORTIS MS OILS

ISO grade	150	220	320	460	680
Specific gravity @ 60/60°F (ASTM D 1298)	0.884	0.889	0.893	0.899	0.902
Density @ 60°F, lbs./gal. (ASTM D 1298)	7.36	7.37	7.41	7.48	7.51
Viscosity at 40°C, cSt (ASTM D 445)	150.0	210.0	310	460	680
Viscosity at 100°C, cSt (ASTM D 445)	14.4	18.2	23.5	30.5	36.5
Viscosity index (ASTM D 2270)	95	95	95	95	95
Pour point, °F (°C) (ASTM D 97)	0 (-18)	0 (-18)	5 (-15)	+5 (-15)	+10 (-12)
Flash point, COC, °F (°C) (ASTM D 92)	485 (252)	510 (266)	535 (279)	550 (288)	432 (222)
FZG test, failure stage (DIN 51354/2)	12+	12+	12+	12+	12+
Water separation minutes (ASTM D 1401)	15	15	20	20	20

TOTAL Lubricants USA Southwest

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Cortis MS Oil
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We are not responsible for the misuse and/or misapplication of our products. MSDS are found at on our web site.