



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		

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