

Cortis ZS

Circulating oil for MORGOIL type bearing

APPLICATIONS

- **Cortis ZS** is a lubricant meeting the requirements of hydrodynamic MORGOIL bearings used for example in rolling mill cylinder bearing in the iron and steel industry.
- Polyvalent anti-wear circulating oil particularly suitable when lubricant can be contaminated by water.

ADVANTAGES

- Excellent oxidation and thermal stability: extended service life even under high temperature.
- Exceptional demulsibility behaviour at high and low temperature confirmed with dynamic demulsibility endurance test.
- Very good anti-wear properties.
- Non-EP lubricant offering good rust and corrosion protection at high temperature.

SPECIFICATIONS

- SMS Siemag - MORGOIL SN 180 - 3 Standart lubricant
- SMS Siemag - MORGOIL SN 180 - 4 Advanced Lubricant
- ISO 12925-1 CKD
- DIN 51517-3 CLP

TYPICAL CHARACTERISTICS

Properties	Units	Standards	Cortis ZS				
			100	150	220	320	460
Density at 15°C	kg/m ³	ISO 3675	858	895	903	908	916
Viscosity at 40°C	mm ² /s	ISO 3104	90	150	220	320	460
Viscosity at 100°C	mm ² /s	ISO 3104	10.6	14.8	18.9	24.4	36.7
Viscosity index	-	ISO 2909	100	98	96	96	96
Flash point	°C	ISO 2592	275	275	285	315	320
Pour point	°C	ISO 3016	-18	-15	-15	-15	-15
Demulsibility at 82°C	Min	ASTM D 1401	3	510	15	15	20
Demulsibility at 52°C							
- Free water	ml	ASTM D 2711 (Method A)	43	43	40	33	32
- Water in oil	%		0.6	0.6	0.7	0.9	1
- emulsion	ml		0	0	0	1	1
FZG test (failure level)	-	DIN 51354/2	12	12	12	12	12

For additional information, contact your local Totalenergies Lubricants representative or visit our web site: <https://lubricants.totalenergies.com>

This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or downloaded from <https://sdstotalms.total.com>