

# CORTIS MS



Lubrication



Ashless anti-wear mineral circulating oil.

## APPLICATIONS

**Multipurpose anti-wear lubricant**

- **CORTIS MS** is a multi purpose anti-wear circulating oil.
- **CORTIS MS** is meeting the technical requirements of hydrodynamic MORGOIL and DANIELI bearings used in rolling mills.

## SPECIFICATIONS

**Manufacturers' specifications**

- DANIELI® BGV and ESS bearings
- MORGOIL® Standart Lubricant - SN 180 Part 3
- MORGOIL® Advanced Lubricant - SN 180 Part 4

## ADVANTAGES

- Excellent oxidation and thermal stability : extended drain intervals.
- Very good desmulsibility behaviour at high and low temperature. Pass the UEC dynamic desmulsibility endurance test.
- Very good anti-wear properties.
- Non EP lubricant offering good rust and corrosion protection at high temperature.
- Ashless additivation with high hydrolytic stability : preventing deposits and maintaining good filtrability properties.

| TYPICAL CHARACTERISTICS      | METHODS     | UNITS              | CORTIS MS |      |      |     |     |     |
|------------------------------|-------------|--------------------|-----------|------|------|-----|-----|-----|
|                              |             |                    | 100       | 150  | 220  | 320 | 460 | 680 |
| Kinematic Viscosity at 40 °C | ISO 3104    | mm <sup>2</sup> /s | 100       | 150  | 220  | 320 | 460 | 680 |
| Density at 15 °C             | ISO 3675    | kg/m <sup>3</sup>  | 888       | 893  | 898  | 903 | 907 | 916 |
| Viscosity Index              | ISO 2909    | -                  | 98        | 96   | 95   | 95  | 95  | 88  |
| Open cup flash point         | ISO 2592    | °C                 | 275       | 285  | 300  | 300 | 300 | 320 |
| Pour point                   | ISO 3016    | °C                 | -18       | -12  | -12  | -12 | -12 | -9  |
| Desmulsibility at 82°C       | ASTM D 1401 | min pour 3 ml      | 3         | 3    | 4    | 6   | 12  | 15  |
| Desemulsibility 52°C         |             |                    |           |      |      |     |     |     |
| - free water                 | ASTM D 2711 | ml                 | 41        | 40   | 36   | 33  | 27  | 30  |
| - water in oil               |             | %                  | 0.60      | 0.80 | 2.40 | 3.0 | 4.8 | 4   |
| - emulsion                   |             | ml                 | 0         | 0    | 0    | 0   | 0   | 1   |
| FZG Test (failure level)     | DIN 51354/2 | -                  | 12        | >12  | >12  | >12 | >12 | >12 |

Above characteristics are mean values given as an information

## HANDLING - HEALTH - SAFETY

Please consult our MSDS on [www.quifds.com](http://www.quifds.com)

**TOTAL LUBRIFIANTS**  
**Industrie & Spécialités**  
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**CORTIS MS**  
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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 down loaded from [www.quick-fds.com](http://www.quick-fds.com).