



Castrol Syntilo MR 81 BF

Synthetic Coolant

Description

Castrol Syntilo™ MR 81 BF is a mineral oil free synthetic coolant, which is formulated without boron and formaldehyde releasing agents. It forms a clear, stable solution in both hard and soft waters. Syntilo MR 81 BF exhibits good anti-corrosion properties coupled with excellent stability.

It can be used in both single sump machines as well as central systems.

Application

Castrol Syntilo MR 81 BF is recommended for surface, cylindrical, double disk and centerless grinding.

√√ suggested core application √ possible application, please consult Castrol representative prior to use

| | Cast Iron | Low-medium alloyed steel | High alloyed - stainless steel | Aluminium alloys | Titanium alloys | Tungsten Carbide |
|--------------------------------------|-----------|--------------------------|--------------------------------|------------------|-----------------|------------------|
| Grinding | √√ | √√ | √ | | | |
| Milling, Turning (General Machining) | √ | | | | | |
| Drilling | | | | | | |
| Reaming, Tapping | | | | | | |
| Broaching | | | | | | |

Advantages

- Low foaming in all water conditions to ensure continuous grinding performance.
- Rejects tramp oil to the surface of the fluid for easy removal.
- Boron, chlorine, phenol and nitrite free which may help you to fulfill aspects of legislative requirements and waste treatment requirements that specify that these chemicals are excluded
- Settles chips quickly to prevent grinding wheel build-up and maintain a clean working environment.
- Resistant to mycobacteria as tested by an independent laboratory under standard test conditions.

Typical Characteristics

| Name | Method | Units | |
|----------------------|------------------------|-------------------|---------------------|
| CONCENTRATION | | | |
| Appearance | Visual | - | Transparent, yellow |
| Density at 15°C | DIN 51757, ASTM D 1298 | kg/m ³ | 1123 |
| Mineral Oil Content | Calculated | Vol % | 0 |
| SOLUTION | | | |
| Appearance | Visual | - | Transparent |
| pH (3%) | DIN 51361, ASTM E70-97 | - | 9.1 |
| Factor Refractometer | - | - | 1.5 |

Subject to usual manufacturing tolerances.

Recommended Concentrations

Grinding : 3 – 5%
Water range : 0 - 400 ppm CaCO₃

Storage

To avoid product deterioration always keep the container/drum tightly sealed. Store the product in a cool, dry place away from direct sunlight. Prevent exposure to frost and avoid water ingress. For optimum product stability, it is preferable to store the product indoors between 5°C and 45 °C / 41°F and 113°F.

For more details, please refer the product safety data sheet.

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