



Product Data

## 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.
- Formulated without formaldehyde releasing agent and boron which help you to fulfil 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	g/cm <sup>3</sup>	1.12
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 CaCO<sub>3</sub>

## 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.

Castrol Syntilo MR 81 BF  
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