



Syntilo MR 9974 BF

High Performance Synthetic Cutting Fluid

Description

Castrol Syntilo™ MR 9994 BF is a synthetic cutting fluid formulated without boron and formaldehyde releasing agents. It contains an additive package that provides good corrosion protection to machine tools and parts. The fluid also provides excellent product stability which helps to lower the overall operational costs.

Syntilo MR 9974 BF is suitable for large central systems and single sump machines.

Application

Syntilo MR 9974 BF is especially designed as a grinding, honing and heavy duty machining fluid for ferrous materials.

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

	Cast Iron	Low-medium alloyed steel	High alloyed - stainless steel	Aluminium alloys	Titanium alloy	Tungsten Carbide
Grinding	ü	ü ü	ü ü			
Milling, Turning (general machining)	ü	ü ü	ü ü		ü ü	
Drilling	ü	ü ü	ü ü		ü	
Reaming, Tapping	ü	ü ü	ü ü		ü	
Broaching	ü	ü ü	ü ü			

Advantages

- Low foaming in recommended water conditions (see details below)
- Extended fluid life can help to reduce maintenance and downtime
- Rejects tramp oil to the surface of the fluid for easy removal
- Formulated without boron and formaldehyde releasing agent which help you to fulfil aspects of legislative and waste treatment requirements where applicable
- 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

	Test Method	Unit	Value
<u>Concentrate</u>			
Colour	Visual		Light Yellow
Mineral oil content	Calculated	Wt%	0
<u>Solution</u>			
Appearance	Visual		Transparent
pH (5%)	DIN 51369 ASTM E70-97		9.4
Refractometer Factor			1.5

Subject to usual manufacturing tolerances.

Recommended Concentrations

Grinding	4 – 6%
General Machining	4 – 10%
Drilling	6 – 10%
Reaming	6 – 10%
Broaching	10 – 15%

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.

Syntilo MR 9974 BF

08 Jun 2021

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

<http://msdspds.castrol.com>