

Castrol Syntilo 1023 BF

Synthetic coolant

Description

Castrol Syntilo™ 1023 BF is an oil dispersing, mineral oil, boron and formaldehyde releasing agent free synthetic coolant. It is engineered to separate tramp oil to the surface of the fluid where it can be removed by skimming. It also disperses small amounts of oil throughout the fluid to create a thin oil film which prevents corrosion on parts, chips and machine surfaces. This dispersing characteristic helps to reduce corrosion and reduces “clinkering” on cast iron chips. Syntilo 1023 is best suited for cast iron transfer machines.

Application

Syntilo 1023 BF is designed for cast iron and low to medium alloyed steel cutting and grinding application.

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 alloy	Titanium alloy	Tungsten Carbide
Grinding	ü ü	ü ü				
Milling, Turning (general machining)	ü ü	ü ü				
Drilling	ü ü	ü ü				
Reaming, Tapping	ü	ü				
Broaching	ü	ü				

Advantages

- Improve residue characteristics compared with oil rejecting synthetic
- Help to inhibit ferrous corrosion to protect machine tools and components
- Oil dispersing characteristic reduces “clinkering” of cast iron chips and smut build-up
- Low foam in recommended water conditions (see details below)
- Formaldehyde releasing agent, boron and nitrite free which help you to fulfil aspects of legislative requirements and waste treatment requirements where applicable
- Extended fluid life can help to reduce maintenance and downtime

Typical Characteristics

	Test Method	Units	Value
Concentrate			
Appearance	Visual		Light Yellow
Mineral oil content	Calculated	Wt %	0
Emulsion			
Appearance	Visual		Translucent
pH (5%)	DIN 51369 ASTM E70-97		9.2
Refractometer factor			1.9

Subject to usual manufacturing tolerances.

Recommended Concentrations

Grinding	3 – 5%
General Machining	4 – 8%
Drilling	5 – 8%
Reaming	6 – 8%
Broaching	7 – 8%

Water range 10 - 300 ppm CaCO₃

Additional Information

	Boron	Formaldehyde releasing agent	EP-Ester	Amines
Additives			ü	ü

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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