



Castrol Syntilo 9923

Synthetic Coolant

Description

Castrol Syntilo™ 9923 is a mineral oil free synthetic coolant especially developed heavy duty machining of aluminium alloys and other aerospace alloys. It forms a clear, stable solution in both hard and soft waters. Syntilo 9923 contains a combination of surfactant chemistry that provides superior lubrication and excellent cooling properties. It can be used in both single sump machines as well as central systems.

Application

Castrol Syntilo 9923 is recommended for grinding, honing, milling, turning, boring, drilling and tapping on aluminium and aerospace alloys including nickel alloys.

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

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

Advantages

- Neutral pH protects aluminum and other aerospace alloys and promotes strong operator acceptance
- Low foaming in all recommended water conditions (see details below)
- Boron, formaldehyde releasing agent and nitrite free which help you to fulfil aspects of legislative and waste treatment requirements where applicable

Typical Characteristics

	Test Method	Unit	Value
<u>Concentrate</u>			
Appearance	Visual		Light Yellow
Mineral oil content	Calculated	Wt%	0
<u>Solution</u>			
Appearance	Visual		Transparent
pH (5%)	DIN 51369 ASTM E70-97		7.4
Refractometer Factor			1.4

Subject to usual manufacturing tolerances.

Recommended Concentrations

Grinding	6 – 8%
General Machining	6 – 10%
Water range	0 - 350 ppm CaCO ₃

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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