

Almaredge 51 FF

High performance soluble metalworking fluid

Description

Castrol Almaredge™ 51 FF is a high performance soluble metalworking fluid formulated without formaldehydereleasing agent. It contains an additive package that can help to enhance machining performance and surface finish, provide excellent product stability, improve bio-resistance properties and lower the overall operations costs.

Almaredge 51 FF is suitable for large central systems and single sump machines.

Application

Almaredge 51 FF is especially designed for grinding of steel and machining of low-medium alloyed steel and cast iron.

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	Yellow metals
Grinding	ü ü	ü ü	ü ü		
Milling, Turning (general machining)	ü ü	ü ü	ü		
Drilling	ü ü	ü ü			
Reaming, Tapping	ü ü	ü			
Broaching	ü ü	ü			

Advantages

- Formulated without formaldehyde releasing agent helps to fulfill your local legislation, waste treatment and environmental requirements where requested
- Long system life helps to reduce maintenance and machine downtime
- Low foam in recommended water conditions (see details below)
- Excellent anti-corrosion properties help to protect machine tools and parts
- Good wetting properties help to reduce coolant drag out and deliver clean machine tools and components

Typical Characteristics

	Test Method	Unit	Value
Concentrate			
Colour	Visual		Amber
Mineral oil content	Calculated	Wt%	50
Emulsion			
Appearance	Visual		Milky
pH (4%)	DIN 51369 ASTM E70-97		9.2
Refractometer Factor			1.0

Subject to usual manufacturing tolerances.

Recommended Concentrations

Grinding	4-6%
General Machining	6-8%
Drilling	7-10%
Reaming	8-13%
Broaching	8-13%

Water range 50-400 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 10°C and 40°C / 50°F and 104°F.

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

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

<http://msdspds.castrol.com>