



Product Data

Alusol M-FX

High performance soluble metalworking fluid

Description

Castrol Alusol™ M-FX is a high performance soluble chlorine free metalworking fluid. It contains a unique additive package that works in synergy to enhance machining performance and surface finish, provide excellent product stability, improve bio-resistance properties and lower the overall operations costs.

Alusol M-FX is suitable for large central systems and single sump machines.

Application

Alusol M-FX is especially designed for machining of aluminium alloys and low-medium alloyed steel.

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	Magnesium alloys	Yellow metals
Grinding		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
Broaching	ü	ü		ü		ü

Advantages

- Chlorine and nitrite free to fulfill your local legislation, waste treatment and environmental requirements
- Resists fungal and bacterial attack to extend fluid life and reduce maintenance and machine downtime
- Low foam in recommended water conditions Good anti-corrosion properties to protect machine tools and parts
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- Advanced lubricity additive ensure improved tool life and part quality
- Excellent wetting properties reduce coolant drag out and deliver clean machine tools and components
- Unique multi-functional product for multi-metal operations results in product consolidation

Typical Characteristics

Name	Test Method	Unit	Alusol M-FX
<u>CONCENTRATE</u>			
Appearance	Visual		Yellow
Mineral Oil Content	Calculated	Wt%	40
<u>EMULSION</u>			
Appearance	Visual		Translucent
pH (5%)	ASTM E 70-97 / DIN 51369		9.0
Refractometer Factor			1.1

Recommended Concentrations

Grinding	5-7%
General Machining	6-8%
Drilling	7-9%
Reaming and tapping	8-12%
Broaching	8-12%

Water Range 100-400 ppm CaCO³

Additional Information

	Boron	Formaldehyde releasing agent	EP-Ester	Amines	Chlorine
Additives	ü	ü	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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