



# Alusol M-FX

High performance soluble metalworking fluid

## Description

Castrol Alusol<sup>™</sup> 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.

	Cast Iron	Low-medium alloyed steel	High alloyed - Stainless steel	Aluminium alloys	Magnesium alloys	Yellow metals
Grinding		ü		ü		
Milling, Turning (General machining)	ü	üü	ü	üü		ü
Drilling	ü	üü		üü		ü
Reaming, Tapping	ü	ü		ü		ü
Broaching	ü	ü		ü		ü

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

#### **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	
Appearance	Visual		Yellow	
Mineral Oil Content	Calculated	Wt%	40	
EMULSION				
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 CaCO <sup>3</sup>

## **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  $5^{\circ}$ C and  $45^{\circ}$ C /  $41^{\circ}$ F and  $113^{\circ}$ F.

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

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