

## Castrol Almaredge 11 FF

High performance semi-synthetic metalworking fluid

### Description

Castrol Almaredge™ 11 FF is a high performance semi synthetic metalworking fluid, which is chlorine and formaldehyde releasing agent free. 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.

Almaredge 11 FF is suitable for large central systems and single sump machines.

### Application

Almaredge 11 FF is especially designed for grinding of steel and machining cast iron.

	Cast Iron	Low-medium alloyed steel	High alloyed - stainless steel	Aluminium alloys	Magnesium alloys	Yellow metals
Grinding	✓✓✓	✓✓				
Milling, Turning (general machining)	✓✓✓	✓				
Drilling	✓✓✓					
Reaming, Tapping	✓✓					
Broaching						

### Advantages

- Formaldehyde releasing agent free to comply with health and safety regulations
- 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
- Excellent anti-corrosion properties to protect machine tools and parts
- Excellent wetting properties reduce coolant drag out and deliver clean machine tools and components

## Typical Characteristics

	Test Method	Unit	Value
<b>Concentrate</b>			
Appearance	Visual		Yellow
Mineral oil content	Calculated	Wt%	11
<b>Emulsion</b>			
Appearance	Visual		Transparent
pH (5%)	DIN 51369 ASTM E70-97		9.7
Refractometer Factor			2.8

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

## Recommended Concentrations

Grinding                    5-7%  
General Machining      6-8%

Water range                50-400 ppm CaCO<sub>3</sub>

## Storage

To avoid product deterioration, keep the container/drum tightly sealed always. Prevent any frost and water ingress.

Store it in a cool and dry place away from direct sunlight. It is preferable to store the product indoors always. For more details, please refer the product safety data sheet.

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