



Alusol ABF 5

High performance soluble metalworking fluid

Description

Castrol Alusol[™] ABF 5 is a high performance semi synthetic metalworking fluid which is boron, amine, 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.

Alusol ABF 5 is suitable for large central systems and single sump machines.

Application

Alusol ABF 5 is especially designed for machining of aluminium alloys. It can also be used for machining of lowmedium alloyed steel.

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

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

Advantages

- Formaldehyde releasing free to comply with health and safety regulations
- Boron free for environmental compliance and improved residue characteristics
- Chlorine and nitrite free to fulfill your local legislation, waste treatment and environmental requirements
- Resists fungal attack to extend fluid life and reduce maintenance and machine downtime
- Low foam in recommended water conditions
- Lubrication package specifically designed to enhance tool life and improve surface finish in aluminium machining
- Excellent wetting properties reduce coolant drag out and deliver clean machine tools and components
- Multi-functional product for multi-metal operations results in product consolidation

Typical Characteristics

Name	Method		Alusol ABF 5	
Concentrate	-	-	-	
Appearance	Visual	-	Amber	
Mineral oil content	Calculated	Wt%	43	
Emulsion	-	-	-	
Appearance	Visual	-	Milky	
pH (5%)	DIN 51369 ASTM E70-97	-	9.1	
Refractometer Factor	-	-	1.0	

Recommended Concentrations

General Machining	6-8%
Drilling	6-8%
Reaming and tapping	7-10%
Broaching	8-12%
Water range	100-800 ppm CaCO3

Additional Information

		Boron	Formaldehyde releasing agent	EP-Ester	Amines	Chlorine
Additives	6			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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