

Alusol ABF 10

High performance semi synthetic metalworking fluid

Description

Castrol Alusol™ ABF 10 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 10 is suitable for large central systems and single sump machines.

Application

Alusol ABF 10 is especially designed for machining of aluminium alloys. It can also be used for machining of low-medium alloyed steel.

	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 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
- Unique multi-functional product for multi-metal operations results in product consolidation

Typical Characteristics

Name	Method	Units	Alusol ABF 10
Emulsion Appearance	Visual	-	Opalescent
Concentrate Colour	Visual	-	Amber
pH, (5%)	ASTM E70-97 DIN 51369	pH	8.9
Mineral oil content		Wt%	40
Density @ 20C	ASTM D4052	g/ml	0.965
Refractive Factor, Reading		-	0.9

Recommended Concentrations

Grinding	4-5%
General Machining	5-7%
Drilling	5-7%
Reaming and tapping	6-9%
Broaching	8-10%
Water range	100-400 ppm CaCO ₃

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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04 Sep 2015
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