

Castrol Alusol CFB

High performance soluble metalworking fluid

Description

Castrol Alusol™ CFB is a high performance soluble chlorine free metalworking fluid. It contains a unique additive package especially designed to machine various aluminium alloys 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 CFB is suitable for large central systems and single sump machines.

Application

Alusol CFB is especially designed for machining of aluminium alloys. It can be used for severe machining applications including reaming and tapping. The product can also be used for machining of cast iron and 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

- 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
- 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
- Non staining to most aluminium alloys

Typical Characteristics

| | Test Method | Unit | Value |
|----------------------|--------------------------|------|-------|
| Concentrate | | | |
| Appearance | Visual | | Amber |
| Mineral oil content | Calculated | Wt% | 56 |
| Emulsion | | | |
| Appearance | Visual | | Milky |
| pH (5%) | DIN 51369 ASTM E70-97 | | 8.9 |
| Refractometer Factor | | | 1.1 |

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

Recommended Concentrations

| | |
|---------------------|------------------------------|
| General Machining | 5-7% |
| Drilling | 5-8% |
| Reaming and tapping | 7-10% |
| Broaching | 8-12% |
| Water range | 20-400 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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