



CareCut S 600

High performance soluble metalworking fluid

Description

Castrol CareCut™ S 600 is a high performance soluble metalworking fluid which is chlorine free and based on selected ester technology. 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. CareCut S 600 is suitable for large central systems and single sump machines.

Application

CareCut S 600 is especially designed for machining aluminium alloys and 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 based on selected ester technology specifically designed to enhance tool life and improve surface finish
- Excellent wetting properties reduce coolant drag out and deliver clean machine tools and components

Typical Characteristics

| Name | Method | Units | Value |
|----------------------|--------------------------|-------|-------|
| Concentrate | | | |
| Appearance | Visual | | Amber |
| Mineral oil content | Calculated | Wt% | 3 |
| Emulsion | | | |
| Appearance | Visual | | Milky |
| pH (5%) | DIN 51369 ASTM E70-97 | | 8.8 |
| Refractometer factor | | | 1.1 |

Recommended Concentrations

| | |
|---------------------|-------|
| Grinding | 5-7% |
| General Machining | 6-8% |
| Drilling | 6-8% |
| Reaming and tapping | 7-9% |
| Broaching | 8-10% |

Water range 20-200 ppm CaCO₃

Additional Information

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

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