

Clearedge 880

High performance semi-synthetic metalworking fluid

Description

Castrol ClearedgeTM 880 is a high performance chlorinated semi synthetic metalworking fluid. It contains a unique blend of extreme pressure additives and corrosion inhibitors, which work in synergy to enhance machining performance and surface finish, provide excellent product stability, improve bio-resistance properties and lower the overall operation costs. Clearedge 880 is suitable for large central systems and single sump machines.

Application

Clearedge 880 is recommended for use on most general purpose machining applications including milling, drilling, tapping, and reaming. It is a versatile product that can be used for machining of cast iron, low-medium alloyed steel, high alloy-stainless steel and aluminium alloys.

| | Cast Iron | Low-medium alloyed steel | High alloyed -stainless steel | Aluminium alloys | Magnesium alloys | Yellow metals |
|---|-----------|--------------------------|-------------------------------------|---------------------|---------------------|------------------|
| Grinding | 3 3 3 | 3 3 3 | 3 3 3 | 3 3 | | 3 |
| Milling, Turning (general machining) | 3 3 3 | 3 3 3 | 3 5 5 | 3 3 | | 3 |
| Drilling | | 3 3 | 3 | 3 | | 3 |
| Reaming, Tapping | | 3 3 | 3 | | | 3 |
| Broaching | 3 3 | 3 | | | | 3 |

Advantages

- Phenol and nitrite free to fulfil your local legislation, waste treatment and environmental requirements
- Resists fungal and bacterial attack to extend fluid life and reduce maintenance and machine downtime
- Excellent anti-corrosion properties to protect machine tools and parts
- Advanced extreme pressure additives to ensure improved tool life and part quality
- Excellent wetting properties reduce coolant drag out and deliver clean machine tools and components
- Can be used on a wide range of metals and operations an ideal candidate for product rationalization on the shop floor

Typical Characteristics

| Name | Method | Units | Value |
|----------------------|---------------------------|-------|-------------|
| Concentrate | | | |
| Appearance | Visual | | Amber |
| Mineral oil content | Calculated | Wt% | 20 |
| Emulsion | | | |
| Appearance | Visual | | Translucent |
| pH (5%) | DIN 51369 ASTM E 70-97 | | 9.2 |
| Refractometer Factor | | | 1.5 |

Recommended Concentrations

Grinding 3-5% **General Machining** 5-7% 6-10% Drilling Reaming and Tapping 6-12% Broaching 7-12%

50-400 ppm CaCO₃ Water range

Additional Information

| | Boron | Formaldehyde releasing agent | | Amines | Chlorine |
|-----------|-------|------------------------------|---|--------|----------|
| Additives | 3 | 3 | - | 3 | 3 |

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