

SOLCUT

Water soluble cutting fluids

Description

SOLCUT is a lubricant which is made of refined base oil and designed as multipurpose oil for machining operations. **SOLCUT** is a Chlorine free macro emulsion, specifically designed for the conventional machining of mild steels, copper alloys, and screw cutting brasses. Temporary protection of mechanical parts, machined or not, where easy removal of the protection product is required.

Applications

Metalworking fluid, watermiscible cutting oil, for CNC, lathe, and drill machine. It is recommended used include grinding and heavy machining of both ferrous and non-ferrous metals at the following ratios:

- ▶ Surface Grinding 3 - 5 %
- ▶ Centerless Grinding 3 - 5 %
- ▶ Drilling and Tapping 5 - 8 %
- ▶ Turning Milling 4 - 6 %
- ▶ Heavy Duty Machining 8 - 10 %

SOLCUT is most effective at combating microorganisms when it is used at water to oil ratio >5%.

Advantages

- ▶ Cooling maximized by metal wetting. In addition, promotes good chip settling
- ▶ Good rust protection for protection of machine parts and work-piece
- ▶ Forms stable emulsion excellent emulsion even with hard water
- ▶ Long sump life good ability to control bacterial growth and rancid odors
- ▶ Good lubricity with high quality refined mineral oil and lubricity additive

Typical Data of SOLCUT

| Characteristics | Unit | SOLCUT | Test Method |
|------------------------|------|-------------|---------------|
| Appearance Concentrate | | Clear Brown | ASTM D 1500 |
| Appearance Emulsion | | Milky White | |
| Density @ 15 °C | kg/L | 0.9800 | ASTM D 4052 |
| pH Concentrate | | 8.5-10.5 | ASTM D 51 369 |
| pH Dilution @5% | | Complete | |

* the typical characteristic mentioned represent mean values