

# Technical Data Sheet

## Coolant CS-50E

Fully synthetic, long service life, metalworking fluid. Novel, high performance, lubricity additives give this product superb machining characteristics, outperforming neat oils and highly chlorinated soluble oils.

Chlorine-free, Synthetic.

Coolant CS-50-E is a modern, fully synthetic watermix cutting fluid used for Sawing, turning, milling, drilling, threading, deep hole boring, gear cutting, broaching and roll tapping, centreless, surface, and cylindrical and creep feed grinding of difficult to machine materials and aluminium alloys.

### Key Benefits

- Long Sump Life
- Improved Tool Life
- Excellent surface finish
- Excellent visibility
- Operator Friendly
- Excellent Corrosion Protection
- Low Foam in soft water.
- Reduced Sticky Deposits
- Less Product Loss due to Draw-Out

### Typical Applications

- |                       |        |
|-----------------------|--------|
| • General Machining   | 4-6%   |
| • Roll tapping        | 10-20% |
| • Broaching           | 6-8%   |
| • Creep feed grinding | 4-5%   |

### Typical Data

<u>Concentrate</u>	
Appearance	Amber Fluid
Specific Gravity	1.1
Mineral Oil Content %	Nil

<u>Emulsion</u>	
Appearance	Translucent
pH at 5%	8.8
IP287 pass at %	2.0
Refractometer Factor	1.5

### Emulsion Type

- Transparent solution
- Zero Oil Content
- Lubricity additives.

### Compatibility

- Ferrous metals including stainless steel.
- Aluminium alloys
- Inconel and other high spec alloys
- Titanium alloys
- Plastics

### General Compatibility

- Waters from 50ppm to 450ppm (Calcium hardness)
- Low foaming tendency
- Suitable for high pressure applications
- Suitable for low pressure applications

### Health and Safety

Full health and safety data sheet is available on request.

### Storage

- Store indoors
- Store between 4 °C and 34°C
- Shelf life is 6 months from date of supply
- Store undercover or if outdoors on its side.

Coolant CS-50E