

Technical Data Sheet

Coolant CS-AQ

Synthetic based, mineral oil-free, long service life, metalworking fluid. Novel, high performance, lubricity additives give this product superb machining characteristics, outperforming neat oils and highly chlorinated soluble oils, with excellent performance on aluminium and steel.

Chlorine-free, Boron-free, MIT/BIT-free, sensitizer-free, formaldehyde-free, solution synthetic.

No human hazard labelling on the concentrate. No mist hazard according to CLP2020/878.

Coolant CS-AQ must be used in water with very low chloride levels and low hardness
– 0 – 150ppm CaCO₃

Coolant CS-AQ is a modern, synthetic base oil, water mix 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 | 5-6% |
| • Roll tapping | 10-20% |
| • Broaching | 6-8% |
| • Creep feed grinding | 5-6% |

Typical Data

Concentrate

Appearance	Amber Fluid
Specific Gravity	1.05
Mineral Oil Content %	Nil

Emulsion

Appearance	Translucent
pH at 5%	7-8
IP287 pass at %	4.0
Refractometer Factor	1.8

Emulsion Type

- Transparent micro-emulsion
- Zero Mineral 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 0ppm to 150ppm (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.

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