

John Neale Ltd – Technical Datasheet

Coolant R-450CF

Water miscible, metalworking fluid concentrate that produces an ultra stable emulsion for use in all waters with extremely long life and excellent corrosion protection even in presence of high chlorides.

Boron-free, Formaldehyde-free, Bactericide-free, Chlorine-free.

Coolant R-450CF is a fine, watermix cutting fluid used for sawing, turning, milling, drilling and threading, general purpose surface, cylindrical and centreless grinding on ferrous alloys including cast iron. It is suitable for high stainless steel and aluminium alloys.

Key Benefits

- Ultra Long Sump Life
- Improved Tool Life
- Highly Stable Micro-Emulsion
- Operator Friendly
- Excellent Corrosion Protection
- Low Foam in soft water.
- Reduced Sticky Deposits
- Less Product Loss due to Draw-Out

Emulsion Type

- Macro-emulsion
- High Oil Content
- Chlorine-free EP additives.

Compatibility

- Ferrous metals including stainless steel, and cast iron.
- Inconel and other high spec alloys
- Titanium alloys
- Plastics

Typical Applications

- | | |
|---|------|
| • General Machining | 5-6% |
| • Grinding: - cylindrical, centreless, surface. | 5-6% |
| • Milling and threading | 5-7% |

General Compatibility

- Waters from 40ppm to 800ppm (Calcium hardness)
- Low foaming tendency
- Suitable for high pressure applications
- Suitable for low pressure applications

Typical Data

Concentrate

Appearance	Amber Fluid
Specific Gravity	0.95
Mineral Oil Content %	~50

Emulsion

Appearance	Amber
pH at 5%	9 – 9.5
IP287 pass at %	3.0
Refractometer Factor	1

Health and Safety

Full health and safety data sheet is available on request.

Storage

- Store indoors
- Store between 4 °C and 35°C
- Shelf life is 6 months from date of supply
- Store undercover or if outdoors on its side.