

# Technical Data Sheet

## UHP Cutting Fluid

Ultra high performance extreme-pressure, long-life watermix metalworking fluid.

Chlorine-free, Amine-free, Boron-free.

UHP Cutting Fluid is a high oil, extreme pressure, watermix cutting fluid used for extremely arduous machining on ferrous alloys and non-ferrous metals. It can be used as neat oil replacement and maintain surface finish.

### Key Benefits

- Extremely High Performance
- Ultra Long Sump Life
- Improved Tool Life
- Highly Stable Macro-Emulsion
- Hazard Label Free
- Low Irritant
- Operator Friendly
- Excellent Corrosion Protection
- Low Foam
- No Sticky Deposits
- Less Product Loss due to Draw-Out

### Typical Applications

- |                                 |       |
|---------------------------------|-------|
| • General Machining             | 6%    |
| • Thread Cutting                | 6-10% |
| • Deep Hole Drilling and Boring | 6-8%  |
| • Reaming                       | 6-8%  |

### Typical Data

<u>Concentrate</u>	
Appearance	Dark Amber Fluid
Specific Gravity	0.92
Mineral Oil Content %	65

<u>Emulsion</u>	
Appearance	Good Milky
pH at 5%	9.8
IP287 pass at %	4.0
Refractometer Factor	1.1

### Emulsion Type

- Tight Milky
- High Oil Content
- EP additives to enhance performance

### Compatibility

- Ferrous metals including stainless steel, not cast iron.
- Aluminium alloys
- Brass
- Inconel and other high spec alloys
- Titanium alloys
- Plastics

### General Compatibility

- Waters from 40ppm to 400ppm (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.

UHP Cutting Fluid

John Neale Ltd, Halesowen, West Midlands  
Phone / Fax: 0121 585 8793, Mobile: 07941774592  
E-Mail: [info@johnnealeltd.co.uk](mailto:info@johnnealeltd.co.uk)