

Product Information:

SUPERCUT 8000

HIGH OIL, ESTER FORTIFIED, SEMI-SYTHETIC WATER SOLUBLE COOLANT



Description

Supercut 8000 is a highly sophisticated, semi-synthetic, micro emulsion specially designed for heavy duty machining applications on difficult and sensitive alloys in moderate to hard diluent waters (water hardness 150 – 350ppm CaCO₃). Supercut 8000 yields multi-metal compatibility, high tolerance to tramp oil and excellent surface finishes on many different alloys with carefully selected corrosion inhibitor systems ensuring stain free performance on steels, brasses and aerospace grade aluminium alloys. Supercut 8000 is formulated to be low foaming under medium-high pressures.

Features

- Ester fortified semi-synthetic formulation
- Free from nitrites, phenols, chlorinated additives and formaldehyde-release biocides
- Enhanced bacterial, fungal and tramp oil tolerance
- Non-staining to aerospace alloys
- Extended sump life
- Low foaming
- Improved machine cleanliness
- Excellent surface finishing

Applications

Turning, milling, drilling, threading, boring, deep hole drilling and reaming on aluminium and difficult to machine alloys.

General Machining Concentration

Mild steels:	3 – 4%
Stainless Steels:	4 – 6%
Aluminium Alloys:	4 – 7%

High Speed Machining Concentration

Hardened Steels:	4 – 5%
	5 – 7%

Internal Tapping, Thread Rolling

Medium tensile steels:	5 – 7%
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Deep Hole Drilling, Boring

Stainless steels:	5 – 8%
Aluminium alloys:	5 – 8%

Reaming, Tapping

High tensile/stainless steels	6 – 10%
Aluminium alloys	6 – 8%

Non Critical Grinding Concentration:

2.5 – 3.0%



Physical Characteristics

Appearance (neat)	Amber Liquid
Relative Density @ 15.6°C	0.983
Emulsion Appearance (3%in 350ppm water)	Translucent white liquid
pH @ 25°C (3% aqueous)	9.40
IP 287 Rust Prevention Characteristics (200ppm water)	2% (50:1)
Foaming Tendency (3% in 200ppm water)	< 20 secs collapse time



Figures based on average production values

Refractometer concentration conversion

Concentration %vol	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	12.0
Refractometer %brix	2.4	3.5	4.5	5.4	6.4	7.4	8.4	9.4	10.4	12.3

Part No.S: SUE025, SUE205

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