

Product Information:

SUPERCUT 4000

HIGH OIL, SEMI-SYNTHETIC MICRO EMULSION WATER SOLUBLE COOLANT



Description

Supercut 4000 is a semi-synthetic, micro-emulsion metalworking fluid, readily miscible with most mains water to produce a translucent green emulsion that is suited to a wide variety of applications. The product has excellent lubricity, is low foaming, offers excellent workpiece visibility, excellent resistance to bacterial degradation and extended sump life.



Supercut 4000 is non-staining to ferrous and non-ferrous materials which enables it to be used on a wide variety of alloys which include ferrous metals up to and including medium tensile and high carbon steels, cuprous alloys and cast iron. It is particularly suited to modern CNC machining centres in soft to medium hardness waters ranging from 50 ppm to 250 ppm (dependent upon coolant delivery pressures).

Features

- Multi-Metal Capability
- Excellent Lubricity
- Chlorine Free
- Extended Sump Life
- Resistant to Bacterial Degradation
- Free From Formaldehyde Release biocides

Applications

General machining, high speed, fine machining, non-critical grinding, high carbon steels, cast iron, ferrous and non-ferrous materials.

General Machining Concentration:	3 - 5% typical
High Speed Machining Concentration:	4 - 6% typical
Grinding Concentration:	2.5 - 4% typical

Physical Characteristics

Appearance (neat)	Fluorescent Green Liquid
Relative Density @ 15.6°C	0.980
Emulsion Appearance (5% in 200ppm water)	Transparent Green liquid
pH @ 25°C (5% aqueous)	9.40
IP 287 Rust Prevention Characteristics (200ppm water)	2% (50:1)
Foaming Tendency (5% in 200ppm water)	< 20 secs collapse time

Figures based on average production values

Refractometer concentration conversion

Concentration %vol	1.0	2.0	3.0	4.0	5.0	6.0	8.0	10.0
Refractometer %brix	1.4	2.3	3.3	4.3	5.2	6.1	8.0	10.0

Part No.S: SUN005, SUN025, SUN205

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