

## NEBULA SOLUBLE CUTTING OIL

Nebula Soluble Cutting Oils is a water soluble metalworking fluid that forms a very stable emulsion when mixed with water at a wide range of dilutions. The stability of this emulsion is not affected by hard water ions and the fact that it does not foam makes it ideal for high speed metalworking operations. The high heat absorbing characteristics Nebula Soluble Cutting Oils provides superior cooling for a variety of metalworking processes.

Nebula Soluble Cutting Oils is fortified with biocides to prevent rancidity caused by bacteria, which can lead to unpleasant odours, split emulsion and reduced product performance. This feature results in greater worker satisfaction and optimum product performance, it also provides excellent protection against rust.

Nebula Soluble Cutting Oils is recommended for light to moderate duty machining operation on all ferrous and non-ferrous metal except magnesium, it is used in machining, sawing, drilling, milling and turning. It is ideal for grinding due to its superior wetting and cooling properties. Typical dilution ratios with water can range from 1:10 for milling and turning to 1: 20 for grinding.

### Typical Properties

<u>Properties</u>	<u>Units</u>	<u>Method</u>	<u>Results</u>
Speciic Gravity @ 15°		ASTM D-4052	0.886
Kin. Visc. At 40°	cSt	ASTM D-445	36
Kin. Visc. At 100°	cSt	ASTM D-445	7.4
Visc. Index	-	ASTM D-2270	117
Flash Point	°C	ASTM D-92	170
Pour Point	°C	ASTM D-97	-25
Colour	-	ASTM D-1500	≤2.5

### ***Benefit***

- Emulsify readily with water
- Non-foaming
- Protect against rust and corrosion
- Excellent wetting and cooling capabilities
- Resists bacterial attack
- Excellent lubricity