

Cutsol Crystal Cool

Full Synthetic Mineral Oil Free Soluble Coolant Concentrate

Product Profile

Cutsol Crystal Cool is a premium performance, mineral oil free full synthetic soluble coolant based around the latest water soluble polymer technology providing outstanding machining performance and surface finish. When mixed with water, Cutsol Crystal Cool forms an ultra low foaming transparent water white solution offering excellent work piece visibility and very low drag out rates. The additive chemistry used in the product ensures excellent performance particularly at elevated temperatures whereby the heat activated polymers provide outstanding performance at the tool/work-piece interface.

Cutsol Crystal Cool is recommended for use in high speed, moderate to heavy duty machining applications such heavy duty turning, milling and drilling including applications with very high stock removal or finished machining with tight tolerances. The product is suitable for use on most ferrous and non ferrous materials including aluminium and yellow metals.

****In order to ensure maximum cleanliness of the solution and to reduce the risk of corrosion, the use of demineralised water is advised when using this product as chloride build up in certain water qualities can increase the risk of corrosion. Please consult technical services for further assistance.**

Features & Benefits

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|------------------------------------|---|--|
| • Boron, biocide & chlorine free | ~ | Improved EHS profile |
| • Water white transparent solution | ~ | Excellent work piece visibility |
| • Highly biostable | ~ | Extended sump life / fewer fluid changes |
| • Ultra low foaming | ~ | Reduced need for antifoam additions |
| • Very low odour | ~ | Excellent operator acceptability |
| • Mineral oil free | ~ | Based on renewable resources |

Typical Test Data

Characteristic / Test	Data
Appearance (concentrate)	Water White
Appearance (emulsion)	Transparent Solution
Specific Gravity @ 15°C	1.01
pH @ 5%	9.7
IP 287 Breakpoint Corrosion	2.0 %
Dilution Range (min ~ max)	4 ~ 10 %
Refractometer Conversion Factor	1.8
Make Up Water Range ppm CaCO ₃ (min ~ max)	5 ~ 400** (see note above)

Actual dilution rates may vary depending on application. Please consult with Technical Services to determine the most suitable dilution for your application.

Availability

Cutsol Crystal Cool is available in 1000 litre IBC's, 205 litre barrels and 20 litre drums.

Health and Safety

Please refer to the relevant Safety Data Sheet, a copy of which is freely available to all customers.
 Data represented is typical of that obtained with normal production tolerances and does not constitute a specification.