

# SPARTAN CHEMICALS

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## Spartan Super Syn LU 307

Boron Free, Triazine Free, Phenol free, Formaldehyde free, and Containing no long chain Chlorinated Paraffin's, Sparcool Super Syn is one of a new generation of boron free synthetic bio-stable water-mix metalworking fluids. It has been specially designed to incorporate the latest advances in additive technology and thereby comply not only with current legislation, but also that pending.

Sparcool Super Syn is a fully synthetic water-mix cutting and grinding fluid that forms a true solution when diluted with water, giving superior cooling and flushing characteristics, keeping grinding wheels "open" and carrying debris away from the machining area.

Sparcool Super Syn provides excellent corrosion protection on both work piece and machines, whilst preventing the build up of "sticky residues", normally associated with synthetic, boron containing fluids.

### Specification

Appearance of Concentrate	Green Liquid
Specific Gravity @ 20°C	1.06
pH @ 5% (Distilled Water)	9.6
Anti-corrosion by IP287	2.5% Break Point
Reichert Load Bearing Characteristics	3.3 Kg/mm <sup>2</sup>
Refractometer Correction Factor	2.2

### Application

Sparcool Super Syn should not be used at concentrations less than its specified break point.

Maximum machining performance can be achieved at concentrations up to 8% however, the majority of operations will be completed with concentrations in the range 3 - 6%.

### Advantages

Boron Free and therefore prevents the formation of sticky residues.

Possesses good wetting and cooling characteristics promoting freedom from wheel glazing when used for grinding

Copes with even the most arduous operations.

Exceptionally long fluid life.

Low foaming characteristics.

Rapid swarf separation.

Does not emulsify machine lubricants.

Excellent work piece visibility

### Note

The life and performance of any water-mix metalworking fluid is affected greatly by external factors such as water quality, atmospheric contamination and ingress of machine oils etc. Maximum benefit and lowest operating costs are achieved where correct monitoring and control is applied.