

# SPARTAN CHEMICALS

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## SPARGRIND COB LU 177

SPARGRIND COB is the latest development in fluid technology designed to prevent cobalt leaching from materials alloyed with cobalt. Research has concluded that the cobalt leaches from these materials when in contact with the metalworking fluid by a reaction with the amino alcohol's and other amine derivatives contained within the fluid . Spargind COB contains unique additives that prevent this reaction.

Spargind COB is a fully synthetic water-mix 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.

In addition, Spargind COB provides excellent corrosion protection on both work piece and machines, whilst preventing the build up of "sticky residues", normally associated with synthetic grinding fluids.

### Specification

Appearance of Concentrate	Amber liquid
Specific Gravity @ 20°C	1.070
pH @ 3% (Distilled Water)	9.1
Anti-corrosion by IP287	2.5% Break Point
Refractometer Correction Factor	2.0

### Application

Spargind COB should not be used at concentrations less than its specified break point.

Maximum machining performance and prevention of cobalt leaching can be achieved at concentrations **no lower than 4%** up to 6% however, the majority of operations will be completed with concentrations in the range 4%.

### Advantages

Prevents cobalt leaching from carbide tools and alloyed materials. Possesses good wetting and cooling characteristics promoting freedom from wheel glazing.

Exceptionally long fluid life and low foaming characteristics with rapid swarf separation.

Does not emulsify machine lubricants. Excellent workpiece visibility

*\* Not being dedicated to any one material or machining process, care should be taken not to use Spargind COB in situations where a dedicated fluid may provide overall better performance.*

*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*