



Product Information:  
**SUPERGRIND CG**  
**SYNTHETIC WATER MISCIBLE SPECIALIST FLUID**  
**FOR CARBIDE GRINDING**

**Description**

Hard metals such as tungsten carbide contain significant amounts of Cobalt in their make-up. It has been shown that if released into the work place, Cobalt poses a health hazard to machine operators. If conventional synthetic grinding fluids are used to grind carbides, Cobalt is automatically released into the fluid and builds up to harmful levels.

Supergrind CG is a specially developed water miscible fluid free from boron, amines and nitrite designed to overcome this effect and to prevent and/or suppress the dissolution of Cobalt. When used as directed, the product is capable of suppressing dissolved cobalt to extremely low levels (a fraction of a part per million in solution) to protect the operative from harmful exposure.

It is recommended that Cobalt levels in the fluid are monitored regularly and maintained at levels below those considered safe by the authorities.

**Features**

- Specialist fluid for all forms of carbide tooling
- High corrosion protection
- Suppresses cobalt leaching
- Biostable
- Good operator visibility
- Rapid release of fines

**Applications**

For the initial grinding and regrinding in all areas of carbide tooling which includes carbide inserts, end mills, tipped saw blades, drill tips et cetera.

As a flood coolant and to enable the inhibitor systems to work correctly, a working strength must be maintained at between 2-4%.

**Note: Supergrind CG is not normally recommended for mixed metal grinding.**

**Physical Characteristics**

Appearance (neat)	Pale straw liquid
Relative Density @ 15.6°C	1.111
Emulsion Appearance (2%in 200ppm water)	Transparent/Clear liquid
pH @ 25°C (2% aqueous)	8.90
IP 287 Rust Prevention Characteristics (200ppm water)	2% (50:1)
Foaming Tendency (2% in 200ppm water)	< 20 secs collapse time

Figures based on average production values

Part No.S: SCG025

(TDS Supergrind CG – 220316 Issue 4)

