

## Durasol COB

Durasol COB is a High-Performance synthetic metal process fluid which produces a translucent solution when diluted in water. Durasol COB is designed for the prevention of cobalt leaching but also suitable for most ferrous and non-ferrous applications

### FEATURES & BENEFITS

- ✓ Secondary Amine Free
- ✓ Triazine Free
- ✓ NP Ethoxylates Free
- ✓ Multi-Functional
- ✓ Low Foaming Tendency
- ✓ Prevention of Cobalt leaching
- ✓ Carbide machining/grinding



### CREATED TO TAKE ON THE DIFFICULT

Durasol COB is a fully synthetic grinding fluid offering exceptional performance in most grinding operations. It is formulated using the latest technology and offers excellent corrosion protection, stable solutions, low foaming tendency excellent fines separation and resistance to bacterial spoilage..

### LOW FOAMING AS STANDARD

The unique low foam emulsifier system does not rely on traditional antifoams for foam control. The emulsion when in use produces 50% less foam compared to similar emulsion types with a 50% repeatable rapid increase in foam collapse. To be used in both soft and hard water conditions from 0ppm – 750ppm

## MATERIALS & PERFORMANCE

Material types	Performance rating	Applications	Dilution
Titanium		Tapping	
Aluminium	**	Milling	10-12%
Aero aluminium alloys		Turning	10-12%
High alloy/stainless steel		Reaming	
Copper/brass	**	Sawing	8-10%
Cast iron	**	Drilling	
Ferrous Materials	**	Grinding	4-6%

## TYPICAL PHYSICAL PROPERTIES

Appearance	Amber liquid
Emulsion Type	Micro-Water White
Foaming Tendency @ 5% emulsion in 50ppm water	Nil foam after 5 seconds
Specific Gravity at 20°C	1.080 typical
pH @ 5%	9.4 typical
Refractometer Factor	1.1
IP 287 Corrosion Break Point, % Volume:	2.0
Reichert Lubricity Characteristics at 10% dilution;	
Noise Reduction (metres)	85
Load Bearing Capacity (Kg/mm <sup>2</sup> )	1.255

### PRODUCT MANAGEMENT

Teklube advise the use of automated mixing systems. If mixing manually, always add the concentrate to the water with maximum agitation, if water is added to the concentrate, the emulsions may prove unstable. Avoid mixing with very cold concentrate or water. Check emulsion strength using a calibrated refractometer. Details of where to purchase equipment and how to use it are available from the Teklube Technical Department.

### PRODUCT MANAGEMENT

The working concentration should be carefully controlled and monitored on a daily basis as higher and lower working concentrations have health and safety implications. Machines should be cleaned out regularly. Fluid and particulate contaminants should be kept to a minimum. This is important especially in terms of bacterial control and is in line with the latest advice from government and professional sources. Detailed reference sources are quoted in the

### STORAGE

- ✓ Store in a cool, well ventilated area
- ✓ Store inside, between 10°C and 30°C
- ✓ Store away from direct heat and frost
- ✓ Avoid water collecting on the barrel top
- ✓ Shelf life 12 months from the date of manufacture