

## **DURASOL HDCF**

Does not contain formaldehyde, chlorine, DCHA with no free boric acid offering significant safety advantages for operators in the working environment.

### **FEATURES & BENEFITS**

- ✓ Very good lubricity
- ✓ Medium EP performance
- ✓ Ultra-low foam / low misting characteristics
- ✓ Low top up rate
- ✓ Significant cost reduction
- ✓ Operator friendly
- ✓ Environmentally respectable
- ✓ Cost effective



### **CREATED TO TAKE ON THE DIFFICULT**

The product produces an ultra-low foam stable translucent micro emulsion and suitable for use with the highest pressure coolant systems. It is based upon synthetic and natural esters to offer a cost effective solution across a wide range of applications.

### **DESIGNED TO GIVE OUTSTANDING PERFORMANCE**

The product incorporates the latest non-staining performance additives to ensure multi-metal compatibility. The balance between cost and performance has been met with this grade and can be considered for use in applications of medium severity. A key feature of the product is its appearance and when in use allows excellent visibility for the workpiece and operator. It is an excellent rationalisation product and would be suited to the machining of materials such as cast iron and non-ferrous material.

### **LOW FOAMING AS STANDARD**

The unique low foam emulsifier system does not rely on traditional anti-foams 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 both soft and hard water conditions from 0ppm – 750ppm.

## MATERIALS & PERFORMANCE

Material types	Performance rating	Applications	Dilution
Titanium	***	Tapping	8-10%
Aluminium	***	Milling	5-7%
Aero aluminium alloys	***	Turning	5-7%
High alloy/stainless steel	***	Reaming	8-10%
Copper/brass	***	Sawing	5-7%
Cast iron	*****	Drilling	8-10%
Ferrous Materials	****	Grinding	4-6%

## TYPICAL PHYSICAL PROPERTIES

Appearance	Amber liquid
Emulsion Type	Clear emulsion
Foaming Tendency @ 5% emulsion in 50ppm water	Nil foam after 5 seconds
Specific Gravity at 20°C	1.0 typical
pH @ 5%	9.4 typical
Refractometer Factor	1.6
IP 287 Corrosion Break Point, % Volume:	3.0
Reichert Lubricity Characteristics at 10% dilution;	
Noise Reduction (metres)	37
Oil Content	20%

### 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