

# Product Performance Features

MOVING YOUR WORLD



## ECOCOOL® GLOBAL 2500

Premium heavy duty water-miscible, cutting and grinding fluid for aluminium applications.

ECOCOOL® GLOBAL 2500 is an advanced water-miscible machining product unlike any metalworking fluid in the market today. Developed for use on difficult aluminium machining applications.

Based on FUCHS' latest advanced chemistry, and includes a novel lubricity package for increased metal removal rates and reduced tooling costs.

### Increases Productivity

- **LONG sump life**
  - Stable pH
  - Low odour
  - Better operator acceptance
- **REDUCED maintenance**
  - Low foam
  - Rejects tramp oil
  - Less tank-side additions
- **REDUCED tooling costs**
  - High lubricity for arduous tasks
  - Reduces rework costs

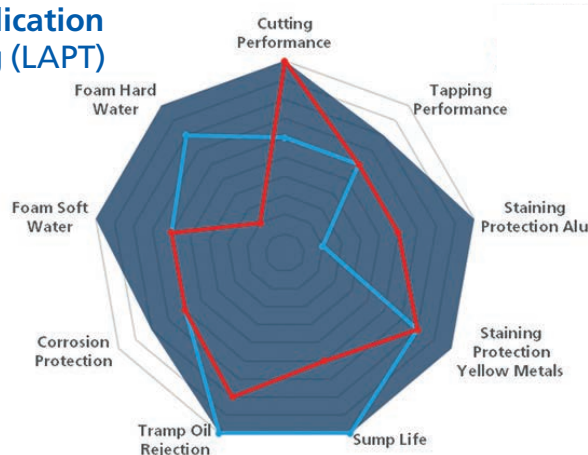
### Increases Efficiency

- **IMPROVED tool life**
  - Highest lubricity in it's class
  - Reduces tool costs
- **LOW foaming**
  - Robust problem solver
- **MULTI-MACHINE use**
  - Machining and grinding
- **CLEANER machines**
  - Excellent washing properties
  - Good filterability

### Laboratory and Application Performance Testing (LAPT)

Tested against leading competitor product's to measure the key attributes required for a high performance metalworking fluid\*

■ ECOCOOL GLOBAL 2500  
— COMPETITOR A  
— COMPETITOR B



**EXTENDED SUMP LIFE**



**EXCELLENT HARD WATER STABILITY**



**REDUCED STAINING ON ALUMINIUM**



**RESISTS MICROBIAL ATTACK**



**NON IRRITATING TO SKIN**

#### PLEASE NOTE

This document is to be read in conjunction with the current PI sheet for the ECOCOOL® GLOBAL range of lubricants. All figures quoted are correct at the time of publication.

\*Results from in-house laboratory testing.

## FAQs

### Q Does it contain boron, formaldehyde and MEA (monoethanolamine)

**No** It is the latest generation of metalworking fluids formulated with a unique chemistry which provides long sump life without the use of boron, chlorine, FAD biocides, bactericides or fungicides, secondary amines, MEA and TEA.

### Q Can it be used with hard or soft water?

**Yes** The product works well with hard or soft water. Our unique formulation allows compatibility with all water hardness levels.

### Q Can it only be used for machining aluminium?

**No** The unique formula allows for use with other materials such as cast iron, mild steel, HT steels, stainless steel, titanium and inconel.

### Q What about staining on aluminium?

It provides excellent aluminium stain control — on par with aerospace products and also provides ferrous corrosion protection.

### Q What is an optimum concentration level?

To ensure the optimum corrosion protection and service life of the emulsion, we recommend the minimum concentration of **≥ 8%**.

High-alloyed steel: **8 – 10%**

Aluminium alloys: **8 – 15%**

### Q How can I clean my parts after machining?

Residual films are readily cleaned from parts with **RENOCLEAN** alkaline cleaners. Your local FUCHS representative can provide you with specific recommendations for your operation.

## ECOCOOL® GLOBAL Series

- **GLOBAL 1000**  
Heavy duty aero / medical / semicon
- **GLOBAL 1500**  
Aluminium aero / auto
- **GLOBAL 2000**  
General purpose aluminium
- **GLOBAL 2500**  
Heavy duty aluminium
- **GLOBAL 3500**  
Cast iron cutting and grinding



### FUCHS Smart Services

- **Metalworking Fluid Analysis**
- **Oil Analysis**
- **Reliability Services**
- **Lubrication Management**
- **Technical Support**

