

# Product Performance Features

MOVING YOUR WORLD

LUBRICANTS.  
TECHNOLOGY.  
PEOPLE.



## ECOCOOL® GLOBAL 3500

Premium water-miscible, cutting and grinding fluid for cast iron machining applications.

ECOCOOL® GLOBAL 3500 is an advanced water-miscible machining product unlike any metalworking fluid in the market today. Developed for use on cast iron, nodular iron and low alloy steel 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



**EXTENDED  
SUMP LIFE**



**EXCELLENT  
HARD WATER  
STABILITY**



**LOW  
ODOUR**



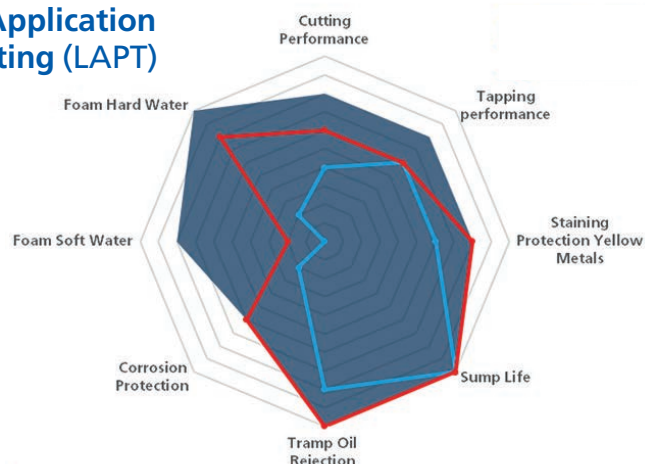
**RESISTS  
MICROBIAL  
ATTACK**



**NON  
IRRITATING  
TO SKIN**

## Laboratory and Application Performance Testing (LAPT)

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



### 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 and MEA.

**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 cast iron?**

**No** The unique formula was developed for cast iron, but can be used on brass, aluminium, copper, SG iron, mild steel, HT steels and stainless steel.

**Q Does it provide ferrous corrosion protection?**

**Yes** It provides ferrous corrosion protection — Chip test DIN 51360/2, pass at 3.5%

**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 **≥ 5%**.

Grinding: **4 – 6%**

General machining: **7 – 10%**

**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

