

# Product Performance Features

MOVING YOUR WORLD



## ECOCOOL® GLOBAL 1000

Premium Aerospace / Medical / Semicon Industry water-miscible, multi-metal cutting and grinding fluid.

ECOCOOL® GLOBAL 1000 is an Aerospace industry grade water-miscible machining product unlike any metalworking fluid in the market today.

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**



**200%  
TOOL LIFE  
ON TITANIUM**



**ZERO  
STAINING**



**RESISTS  
MICROBIAL  
ATTACK**



**NON  
IRRITATING  
TO SKIN  
EFFICIENCY**

## Approvals

### Aerospace

- AIRBUS  
AIPS 00-00-010
- BOEING  
BAC 5008  
(tested)
- ROLLS ROYCE  
CSS 129/131 Cat. 2
- SAFRAN  
PR 6300 Ind A

### Medical

#### Cytotoxicity:

- EN ISO 10993-1
- EN ISO 10993-5
- EN ISO 10993-12

### Semiconductor

- ASML - Grade 2  
Application

### OEM Machine Manufacturer

- DMG MORI
- GROB

#### 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.

## 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, FAD biocides, bactericides or fungicides, secondary amines, MEA and silicon.

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

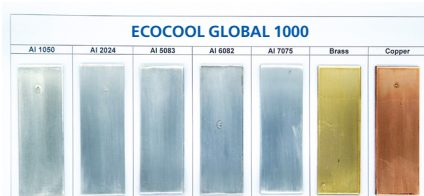
**Yes** The product works well with hard or soft water. Our unique formulation allows compatibility with all water hardness levels.

### Q Can it only be used for Aerospace alloys?

**No** The unique formula allows for use with materials such as brass, aluminium, cast iron, copper, SG iron, mild steel, HT steels, stainless steel, titanium and inconel. Our products will also protect machine tool internals.

### Q Will it stain aluminium?

**No** It will not stain aluminium and has good compatibility with critical alloys such as 2024, 5083, 6061, 7010, 7050, 7075



### Q Is it suitable for high pressure and through spindle cooling?

**Yes** It has very good foam control for operations requiring high pressure fluid delivery, and is particularly suitable for operations requiring turbulent flow.

### 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