

ECOCOOL® GLOBAL Series
Advanced Technology Metalworking Fluids



LUBRICANTS.
TECHNOLOGY.
PEOPLE.



MOVING YOUR WORLD



FUCHS LUBRICANTS (UK) PLC

**Holistic and
future minded**

**With a reliable
partner**

We do not just develop lubricants. We develop intelligent solutions for highly complex challenges.

At the very core of everything we do is a promise of reliability. We move your world – not just to keep things running at all times, but to improve your whole production process. To do so, we constantly look ahead and at the big picture.

A holistic approach that encompasses ecological, social and economic aspects.

Our goal: to keep our customers' world in motion. Efficient, sustainable, reliable.

Today and tomorrow.

How can FUCHS help to move your world?



MOVING YOUR WORLD

FUCHS Smart Services

There's more to lubrication than just oil

FUCHS Smart Services bring far more to the table than “just” a product. Instead, we combine performance fluids, digital technologies and a wide range of services into customised solutions.

FUCHS SOLUTIONS

Lubrication

Digitalisation

Services

FUCHS PROCESS



Understand
Assess and
Analyse



Develop
Plan and
Set-Up



Manage
Implement
and Operate



Optimise
Fine-tune
and Re-use

Fluid Management

FUCHS' Fluid Management is a complete lubricant supply and management programme which is unique and flexible to meet the requirements of your business.

It is a carefully managed, structured system of operations in which all aspects and consequences of fluid usage are managed, monitored and assessed.

Expert support

We provide expert support in the areas of fluid supply, distribution, monitoring, maintenance, assessment and disposal, allowing our customers to concentrate on what they know best.

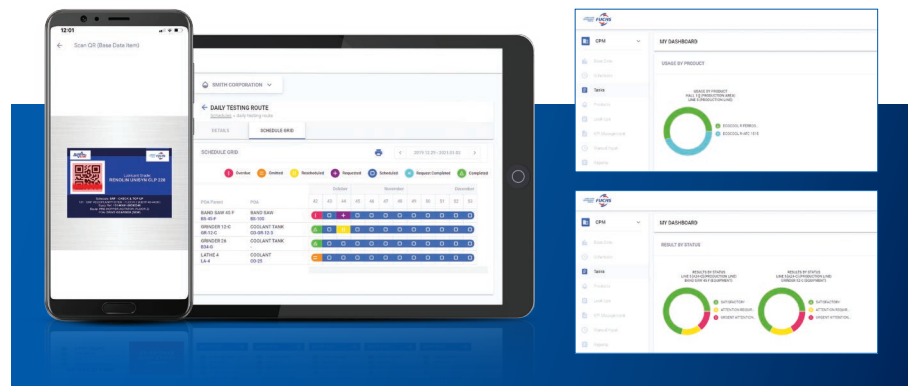
Full technical support is provided by a dedicated team of production fluid specialists, complemented by extensive laboratory facilities.

FluidsConnect Web-based Support Tool

At FUCHS we utilise the latest technology to aid our customers, with this being demonstrated by the use of digital systems for many years. FluidsConnect is your “digital backbone” for all service provisions at your facility.

FluidsConnect is an easy to navigate, web based, recording, tracking and reporting tool, with integrated KPI measurements; to give maintenance and production engineers, immediate and remote access to the current condition of fluids in use.

FluidsConnect: Simple Efficient Control



[Example dashboard screen shots]



FUCHS Smart Services

- Metalworking Fluid Analysis
- Oil Condition Monitoring
- Reliability Services
- Lubrication Management
- Technical Support
- Lubrication Training

ECOCOOL® GLOBAL Series

High performance cutting fluids

Aerospace Series

ECOCOOL® GLOBAL 1000

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

ECOCOOL® GLOBAL 1500

Premium Aerospace / Automotive Industry water-miscible, mineral oil free, multi-metal cutting and grinding fluid.

ECOCOOL® GLOBAL S240

High performance Aerospace Industry water-miscible, oil free multi-metal and composites cutting and grinding fluid.

Aluminium Series

ECOCOOL® GLOBAL 20

High performance Automotive Industry water-miscible, multi-metal cutting and grinding fluid.

ECOCOOL® GLOBAL 2000

Premium Automotive Industry water-miscible, multi-metal cutting and grinding fluid.

ECOCOOL® GLOBAL 2500

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

Cast Iron Series

ECOCOOL® GLOBAL 3500

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

Product Selection Guide

Option	Grade	Suitability			Operation (light to heavy)								
		Contains Boron	Contains Sulphur	Water Type	Grinding	Sawing	Drilling	Turning	Milling	Deep Hole Boring	Tapping	Boring	Broaching
BEST	ECOCOOL GLOBAL 1000	X	X	ALL	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ECOCOOL GLOBAL 1500	X	X	ALL	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ECOCOOL GLOBAL 2000	X	X	ALL	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ECOCOOL GLOBAL 2500	X	X	ALL	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ECOCOOL GLOBAL 3500	X	X	ALL	✓	✓	✓	✓	✓	X	✓	✓	X
BETTER	ECOCOOL S761 B	✓	X	M	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ECOCOOL GLOBAL 10	X	X	ALL	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ECOCOOL GLOBAL 20	X	X	ALL	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ECOCOOL ULTRA-MOTIVE	X	✓	ALL	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ECOCOOL 2516 MG-DC	✓	X	ALL	✓	✓	✓	✓	✓	✓	✓	✓	X
	ECOCOOL 2016 NBF GB	X	X	ALL	✓	✓	✓	✓	✓	X	X	X	X
	ECOCOOL VHCM BF	X	X	M	✓	✓	✓	✓	✓	X	✓	X	X
GOOD	ECOCOOL R – VHCM	✓	X	M	✓	✓	✓	✓	✓	X	✓	X	X
	ECOCOOL AFC 1515	X	X	M/H	✓	✓	✓	✓	✓	✓	✓	✓	X
	ECOCOOL MM BF	X	X	M	✓	✓	✓	✓	✓	X	✓	X	X
	ECOCOOL MM	✓	X	M	✓	✓	✓	✓	✓	X	✓	X	X
SYNTHETIC	ECOCOOL SD	X	X	M	✓	✓	✓	✓	✓	X	X	X	X
	ECOCOOL GLOBAL S240	X	X	M	✓	✓	X	✓	✓	✓	✓	✓	X
	ECOCOOL S-CO 5 BF	X	X	M	✓	✓	X	X	X	X	X	X	X
	ECOCOOL CGF-BF	X	X	M	✓	✓	X	X	X	X	X	X	X
ECOCOOL 6100 SG	X	X	M	✓	✓	X	X	X	X	X	X	X	

Materials (soft to hard)	Composites	Magnesium	Brass	Aluminium	Aero Alloys	Cast Irons	Copper	SG Iron	Mild Steel	HT Steels	Stainless Steel	Titanium	Inconel	Cobalt Containing
X	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	X
X	X	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	X

Key	Comments
✓✓ Recommended	Airbus AIPS 00-00-010, SAFRAN PR 6300, Medical Cytotoxicity and Semicon ASML Grade 2 approved.
✓ Suitable	New technology, mineral oil free specifically designed for steel, titanium and aluminium alloys. German Water Hazard Class - WGK 1.
X Not recommended	New technology, specifically designed for automotive and supplier industry. German Water Hazard Class - WGK 1.
	New technology, specifically designed for heavy duty aluminium applications. German Water Hazard Class - WGK 1.
	New technology, specifically designed for cast iron, nodular iron and low alloy steel. German Water Hazard Class - WGK 1.
	High lubricity with Airbus, Boeing, Bombardier, Bell Helicopters, Rolls Royce, Pratt & Whitney, SAFRAN and Lockheed Martin approvals.
	Robust, high performance grade, especially effective on aluminium and titanium.
	Robust, high performance grade, especially effective on aluminium and steel. Aluminium milling shows improvements in tool life.
	Robust, heavy duty grade automotive grade especially effective on stainless steel, aluminium and titanium. Contains lubricity enhancers.
	Medical Cytotoxicity approved EN ISO 10993-1, 5,12. High cutting performance and high emulsion lifetime.
	Low oil, high cleanliness, clean in hard water. Suitable for cast iron and steel.
	Multifunctional, micro-emulsion general purpose grade. Suitable for cast iron, nodular iron, and low alloy steel.
	Multifunctional, low oil micro-emulsion general purpose grade. Suitable for cast iron, nodular iron, and steel.
	General purpose macro-emulsion for medium to hard waters. Suitable for cast iron, nodular cast iron, steel, and aluminium alloys.
	General purpose, semi-synthetic, micro-emulsion, high machine cleanliness in hard water. Suitable for multi metal machining.
	General purpose, semi-synthetic, micro-emulsion, with good corrosion protection. Suitable for multi metal machining.
	General purpose, high lubricity, suitable for multi metal machining.
	Oil free cutting and grinding fluid with Airbus approval for composite machining AIPS 00-00-010 / AIP1 03-07-002. German Water - WGK 1.
	Oil free tungsten carbide grinding fluid.
	General purpose, oil free grinding fluid.
	Oil free cutting and grinding fluid, non-foaming with excellent cooling properties.



Complete Fluid Solutions

Intelligent solutions for complex processes



ANTICORIT

Premium corrosion protection



LUBRODAL

Premium hot forming



ECOCOOL®

Premium machining and grinding



RENOCLEAN

Premium component cleaning



THERMISOL

Premium heat treatment



ANTICORIT

Premium corrosion protection

Technology Partnership with DMG MORI

First-fill high performance lubricants

High performance machining technology requires high performance lubricants. FUCHS have partnered with DMG MORI, ensuring only the best possible fully approved lubricants are used as first-fill and aftermarket.

- Fully approved, first-fill
- Reliability and performance as standard
- Best in class base oil technology and additive selection



1 Hydraulic/
Transmission oils
RENOLIN series

Greases
RENOLIT series

2 Spindle oils
RENOLIN series

Spindle greases
RENOLIT series

3 Chuck greases
RENOLIT series

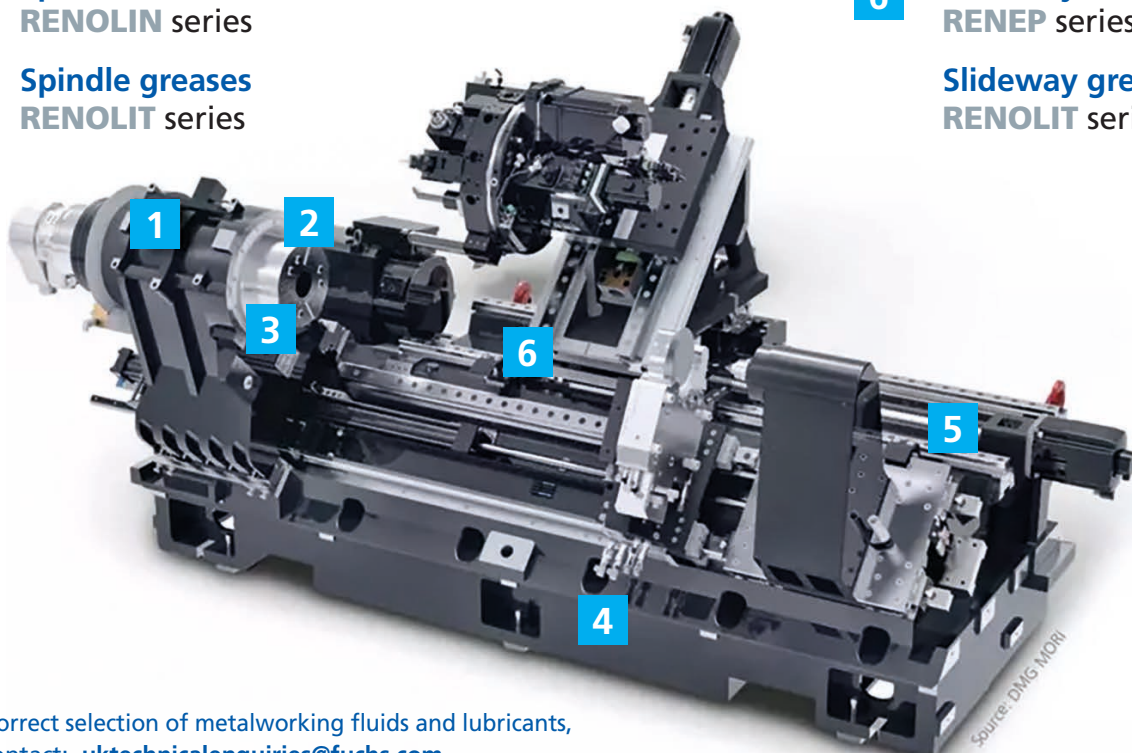
4 Metalworking fluids
ECOCOOL series
ECOCUT series
PLANTO series

5 Corrosion preventatives
ANTICORIT series

Cleaners
RENOCLEAN series

6 Slideway oils
RENEP series

Slideway greases
RENOLIT series



For the correct selection of metalworking fluids and lubricants, please contact: uktechnicalenquiries@fuchs.com

Performance – lowering your total cost of ownership

Maximum machine availability and minimized total cost of ownership are what we strive for. To achieve these goals, we leverage a solution-driven mindset, interdisciplinary expert knowledge utilising state-of-art techniques and advanced chemistry.



Contact:



FUCHS LUBRICANTS (UK) PLC
New Century Street,
Hanley, Stoke on Trent,
Staffordshire, ST1 5HU
Phone: +44 (0) 1782 203 700
E-Mail: contact-uk@fuchs.com
www.fuchs.com/uk



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