

Product Information

MOVING YOUR WORLD



ECOCOOL MM

Soluble Cutting Fluid

Description

ECOCOOL MM is a biocide free, semi-synthetic water-miscible multifunctional cutting fluid for machining of cast iron, modular iron, steel, yellow metals and popular aluminum alloys. When used with critical aluminum alloys we suggest a compatibility test.

The micro emulsion generated is clear in appearance and maintains good tool cleanliness during operation.

ECOCOOL MM is free of secondary alkanolamines /-amides.

Application

ECOCOOL MM is suitable for turning, drilling, milling and grinding. Especially high performance is seen in grinding operations.

ECOCOOL MM is also particularly suited to machining of brass and copper. The semi-synthetic micro emulsion offers better resistance to copper soap build up and machines remain cleaner due to lowered oil content of the emulsion. ECOCOOL MM has better wetting properties when compared to traditional high oil emulsions.

Advantages

- Reduced grinding burns and wheel wear
- Low foaming
- Free of formaldehyde donating biocide
- Optimum wetting, cooling and flushing performance
- Good washing effect keeps machines clean
- Low misting
- Good filterability
- No staining on yellow metals
- Passivated for the use on yellow metal and brass

Storage Conditions

Protect from frost

Product Information

MOVING YOUR WORLD



TYPICAL CHARACTERISTICS

Density at 15°C	DIN 51 757	1.01 g/mL
Kinematic viscosity at 40C	DIN 51 562-1	35
Corrosion test emulsion 4%	DIN 51 360-2	0 – 0 Degree of corrosion
pH-value 5% emulsion	DIN 51 369	9.6
Handheld refractometer factor	FLV-T 5 *)	2.1

Application concentration

To ensure the optimum corrosion protection, we recommend a concentration of at least 5%.

However, the ultimate concentration must also be compatible with the materials involved and the machining operation.

Mixing temperatures

The optimum mixing temperature for water and concentrate is 15 – 20C Our Application Engineers will be pleased to advise you regarding specific applications.

Changes in colour and slight sedimentations in the water-miscible cutting fluid concentrate have no adverse effect on the quality of the performance of the product.

Product Information

MOVING YOUR WORLD



Notes

The information contained in this product information is based on the experience and know-how of FUCHS LUBRICANTS (UK) plc in the development and manufacturing of lubricants and represents the current state-of-the-art. The performance of our products can be influenced by a series of factors, especially the specific use, the method of application, the operational environment, component pre-treatment, possible external contamination, etc. For this reason, universally valid statements about the function of our products are not possible.

Our products must not be used in aircraft or spacecraft. Our products may be used in manufacture of components for aircraft or spacecraft if they are removed without residue from the components prior to assembly into the aircraft or spacecraft.

The information given in this product information represents general, non-binding guidelines. No warranty expressed or implied is given concerning the properties of the product or its suitability for any given application. We therefore recommend that you consult a FUCHS LUBRICANTS (UK) plc application engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

Our products undergo continuous improvement. We therefore retain the right to change our product program, the products, and their manufacturing processes as well as all details of our product information sheets at any time and without warning, unless otherwise provided in customer-specific agreements. With the publication of this product information, all previous editions cease to be valid. Any form of reproduction requires express prior written permission from FUCHS LUBRICANTS (UK) plc.

© FUCHS LUBRICANTS (UK) plc. All Rights reserved.