

ECOCOOL MM BF

Soluble Cutting Fluid

Description

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

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

ECOCOOL MM BF is free of secondary alkanolamines /-amides.

Application

The product is low foaming and low misting at recommended concentrations and has excellent settling out for milling abrasion.

ECOCOOL MM BF is suitable for turning, drilling, milling and grinding.

Advantages

- Reduced grinding burns and wheel wear
- Low foaming
- Free of formaldehyde donating biocide
- Free from boron
- Optimum wetting, cooling and flushing
- Good washing effect
- Low misting
- Good filterability

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Health, Safety and Environment - information is provided for products in the relevant Safety Data Sheet. This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products.

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While the information and figures given here are typical of current production and conform to specification, minor variations may occur. No warranty expressed or implied is given concerning the accuracy of the information or the suitability of the products

ECOCOOL MM BF

Typical chemical and physical properties

Property	Unit	Data	Test Method
Density at 15C	g/ml	0.99	DIN 51 757
Kinematic viscosity at 40C		35	DIN 51 562-1
Corrosion test emulsion 4.5%	Degree of corrosion	0 – 0	DIN 51 360-2
pH-value 5% emulsion		9.7	DIN 51 369
Handheld refractometer factor		1.9	FLV-T 5 *)

*) FLV = Test procedure of FUCHS SCHMIERSTOFFE GMBH

Application Concentration

To ensure the optimum corrosion protection, we recommend a concentration of at least 7%.

Recommended Concentration

Cast iron / steel
General machining: 7 – 10%
Grinding: 6%

Mixing Temperature

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.

Storage conditions: Protect from frost

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