

ECOCOOL 68 CF 3

Description

ECOCOOL 68 CF 3 is a mineral oil-based water-miscible cutting fluid multifunctional usable for machining of cast iron, modular iron, steel and all other popular aluminum alloys. When used with critical aluminum alloys we suggest a compatibility test.

The micro emulsion generated during preparation summarizes the benefits of the clear-sightedly of the cutting fluids with the partly synthetically products.

ECOCOOL 68 CF 3 is free of secondary alkanolamines/-amides and conforms to German TRGS 611.

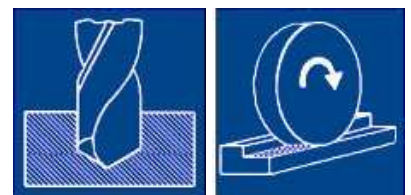
Application

The product is low foaming within the commonly used mixtures, low misting and has an excellent settling out for milling abrasion.

Because of special ingredients ECOCOOL 68 CF 3 is usable for turning, drilling, milling and grinding. Especially high performance grinding operations with high quality surfaces and economical wheel durability will be achieved.

Benefits

- produce outstanding surface finishes
- optimum wetting, cooling and flushing performance
- good washing effect keeps machines clean
- low foaming
- good filterability
- low misting
- universally applicable for machining and grinding
- excellent corrosion protection
- high emulsion stability
- high cutting performance
- established formulation in wide application fields



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Typical chemical and physical properties

Property	Unit	Data	Test method
Density at 15 °C	g/ml	1.00	DIN 51 757
Kinematic viscosity at 40 °C	mm ² /s	Approx 90	DIN 51 562-1
Corrosion test emulsion ≥ 3.0 %	Korr.-grad	0 – 0	DIN 51 360-2
pH-value 5 % emulsion		9.5	DIN 51 369
Handheld refractometer factor (Testroe)		1.5	FLV-T 5 *)

*) FLV = Test procedure of FUCHS EUROPE SCHMIERSTOFFE GMBH

Application concentration:

To ensure the optimum corrosion protection, we recommend a concentration of at least ≥ 4.5 %.

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

Mixing temperatures:

The optimum mixing temperature for water and concentrate is 15–20 °C

Our application engineers will be pleased to advise you regarding specific applications.

Changes in the colour of the water-miscible cutting fluid concentrate have no detrimental effect on the quality or the performance of the product.

Product specific antifoaming agent conglomerates can be formed with long storage time. With very low water hardness we recommend the addition of ANTIFOAM 46 W to the emulsion.

As regards application, please observe current German VDI-Guidelines 3035, 3397 Sections 1–3 for perfect results.

Storage conditions: Protect from frost!



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We therefore recommend that you consult a FUCHS EUROPE SCHMIERSTOFFE GMBH 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.

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