

ECOCOOL R - AFC 1515 L

Description

ECOCOOL R - AFC 1515 L is a high quality, water miscible cutting fluid.

ECOCOOL R - AFC 1515 L can be used for machining cast iron, nodular cast iron, steel and established aluminium alloys. By the use of special aluminium a staining test should be done.

When mixed with water ECOCOOL R - AFC 1515 L produces a stable, fine disperse, long-life emulsion.

Application

ECOCOOL R - AFC 1515 L assigned with excellent low foam, low misting and very good sedimentation behaviour.

The use of carefully selected substances in combination with high pressure (EP) agents ECOCOOL R - AFC 1515 L is applicable for turning, milling, drilling, grinding and reaming processes.

ECOCOOL R - AFC 1515 L can be used for the machining of steel as well as for the roughing and fine finishing of aluminium.

Benefits

- produce outstanding surface finishes
- optimum wetting, cooling and flushing performance
- good washing effect keep machines clean
- low foaming
- good filterability
- low-misting
- universally applicable for machining and grinding

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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.

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

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Characteristics	Unit		Test Method
Kinematic Viscosity at 40°C	mm ² /s	35	DIN 51 562-1
Density at 15°C	g/cm ³	0.994	DIN 51 757
pH at 5% in DIN water		9.6	DIN 51 369
Corrosion test emulsion > 4.5%	deg. of corrosion	0 – 0	DIN 51 360-2
Refractometer correction factor		1.6	FLV-T 5

Note: Refractometer Reading x Correction Factor = Actual Concentration

Application concentration:

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

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

Recommended concentrations:

Cast iron: 5 – 6 %
Steel and Aluminium: 6 – 8 %

Mixing temperature:

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

As regards application, please observe VDI Guidelines 3035 and 3397, Sections 1 – 3 and BGR/GUV – R rules: "Tätigkeiten mit Kühlschmierstoffen".

Storage conditions: Protect from frost!

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