

ECOCOOL R-AFC 1515 JLR

Description

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

ECOCOOL R-AFC 1515 JLR can be used for machining cast iron, nodular cast iron, steel and established aluminium alloys. For use with special aluminium alloys staining tests should be carried out.

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

Application

ECOCOOL R-AFC 1515 JLR has excellent low foam, low misting and very good sedimentation behaviour.

The use of carefully selected components in combination with high pressure (EP) agents make ECOCOOL R-AFC 1515 JLR suitable for turning, milling, drilling, grinding and reaming operations.

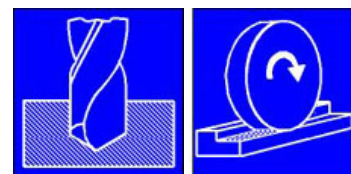
ECOCOOL R-AFC 1515 JLR can be used for the machining of steel as well as for the roughing and fine finishing of aluminium.

Advantages/Benefits

- Produces outstanding surface finish
- Optimum wetting, cooling and flushing performance
- Good washing effect - keeps machines clean
- Low foaming
- Good filterability
- Low-misting
- Universally applicable for machining and grinding

Component Protection

Following manufacturing operations Fuchs recommends the use of our fully compatible RENOCLEAN cleaners and ANTICORIT corrosion preventives to clean and protect your components. Please refer to data sheets, or contact your local Fuchs Area Manager to discuss your requirements.



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Coolant Monitoring

As with all modern cutting fluids, concentration control is of paramount importance, therefore regular check by use of a refractometer is recommended for this product. It should be noted that the individual product refractometer correction factor should always be used to ensure accuracy.

Other Services

A comprehensive range of coolant monitoring and maintenance systems are available from FUCHS Lubricants UK, incorporating coolant dispensing, recycling and disposal equipment.

Storage

Soluble oil concentrates may be damaged by frost. Store indoors at ambient temperatures.

CHARACTERISTICS: ECOCOOL R-AFC 1515 JLR

Property	Unit	Data	Test method
Density at 15°C	g/ml	0.98	DIN 51 757
Kinematic viscosity at 40°C	mm ² /s	50	DIN 51 562-1
Corrosion test emulsion > 4.5 %	degree of corrosion	0 – 0	DIN 51 360-2
pH value, 5 % emulsion		9.5	DIN 51 369
Handheld refractometer factor (Testroe)		1.5	FLV-T 5 *)

Note: *Refractometer Reading x Correction Factor = Actual Concentration*

*) FLV = Test procedure of FUCHS EUROPE SCHMIERSTOFFE GMBH

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 Specialists 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.

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



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