

r.rhenus FU 50 T

r.rhenus FU 50 T is a water miscible EP metalworking fluid formulated from mineral oil, free of amines and boric acid. A product of outstanding machining capability offering maximum protection for operator and machine.

Application

r.rhenus FU 50 T is a multi-purpose coolant suitable to use for heavy duty machining operations of steel and non-ferrous metals include. Particularly advantageous for use in machining centres and transfer lines. Excellent for machining of aluminium including thread cutting and MAPAL reaming.

r.rhenus FU 50 T emulsions feature a very long time stability even under hot and humid weather conditions, contaminated mixing water and adverse machine surroundings.

Properties

- whitish, finely dispersed emulsions
- universal application
- high stability, low drag out losses
- high stability, good sump life
- low foaming at most different water qualities
- good skin tolerance
- suitable for systems with a strong biological pollution

Technical Data

Concentrate		Emulsion	
viscosity 20 °C (mm ² /s)	mineral oil content %	pH-value fresh preparation at 5 %	corrosion protection (DIN 51360/1)
approx. 150	approx. 50	9,2	2,5 % RO-SO

Remarks

To prepare operating emulsion slowly add the coolant concentrate to drinking quality water assuring thorough mixing. For best results mixing through an automatic mixer is recommended.

Recommended mixing ratios:

Machining of aluminium alloys and steel from 6 %
Machining of alloyed steels from 6 %

The concentration of the operating emulsion can be determined by means of a pocket refractometer. The Brix value multiplied by the refractometer value equals the concentration in %. Sometimes reading of scale is more difficult with older emulsions because of the more coarse dispersion.

Refractometer factor

1,0

Rhenus metal working fluids are free of chlororganic substances, nitrite and secondary amines. They contain natural raw materials. Therefore, slight degradations of colour and appearance are possible, however, quality and function of the product are not affected at all.

Subject to modification of the technical data. Please refer to the material safety data sheet for additional information or contact our application engineers.

Edition

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