

r.rhenus FS 71

r.rhenus FS 71 is a water-miscible metal working fluid based on mineral oil. As a product of the second generation of coolants which are free of amines and boric acid, it offers a wide range of applications and maximum protection for operator and machine.

Application

r.rhenus FS 71 is universally applicable for machining and grinding operations, including cast iron, steels and aluminium alloys.

Properties

- whitish, finely dispersed emulsions
- universal application, high lubricating effect
- high stability, low drag out loss
- good sump life of emulsion
- good demulsifying properties for Rhenus sliding oils **r.rhenus Nor SLA** and **r.rhenus Nor SLB**
- very low foaming properties at different water qualities
- good skin tolerance due to low pH values (8,0 - 8,8)
- free of bactericides

Technical Data

Concentrate		Emulsion	
Viscosity 20 °C (mm ² /s)	Content of mineral oil %	pH-value fresh preparation 5 %	Corrosion protection (DIN 51360/1)
approx. 80	approx. 66	8,9	2,5% RO-SO

Remarks

To prepare operating emulsion slowly add the coolant concentrate to drinking quality water assuring thorough mixing. Mixing can also be done by means of an automatic mixer.

Recommended mixing ratios:

Machining of aluminium alloys and steel: from 5 %

Machining of cast iron: from 6 %

Grinding: from 5 %

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 dispersivity.

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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