

r.rhenus R-COOL-S micron

r.rhenus R-COOL-S micron is a water-miscible metalworking fluid based on mineral oil. As a product of the second generation of coolants free of amines and boric acid, it offers a wide range of machining applications and maximum protection for operator and machine.

Application

r.rhenus R-COOL-S micron is a universally used for grinding and machining operations of cast iron, steels and aluminium alloys.

Properties

- very finely dispersed emulsions
- high rinsing effect
- high stability, low drag out losses
- good sump life of emulsion
- good demulsifying properties for Rhenus slideway oils **r.rhenus Nor SLA** and **r.rhenus Nor SLB**
- low foaming at different water qualities
- good skin tolerance due to low pH value (7,5 -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. 100	approx. 41	9,0	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 ratio:

Machining of steel and aluminium	from 4 %
Machining of cast iron	from 5 %
Grinding	from 4 %

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

07/08