

r.rhenus TU 20

r.rhenus TU 20 is a water-miscible, semi-synthetic EP metalworking fluid with a low content of mineral oil.

Application

r.rhenus TU 20 is a universally applicable for machining and grinding operations of steel, cast and aluminium.

r.rhenus TU 20 has an excellent cooling and rinsing effect with good lubricating properties. Therefore, a wide range of machining operations is covered with only one product. The emulsions have a good long time stability even under adverse climatic operating conditions where humidity, contaminated water and unfavourable machine circumstances have a dominating effect.

Properties

- opalescent – transparent
- high stability, low drag out
- good corrosion protection
- good foaming behaviour
- excellent rinsing effect
- low maintenance
- good skin compatibility

Technical Data

Concentrate		Emulsion	
Viscosity 20 °C (mm ² /s)	Content of mineral oil %	pH-value at 5 %	Corrosion- protection (DIN 51360/2)
approx. 130	approx. 16	9,3	at 4 % grade 0

Remarks

To prepare operating solution 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 steel, cast and non-ferrous metals:	from 4 %
Machining of aluminium	from 5 %
Grinding of steel	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

1,4

Rhenus metal working fluids 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