rhenus FU 51



rhenus FU 51 is a water-miscible EP metal working fluid based on mineral oil, free from amines and boric acid. A product of outstanding machining capability teamed with optimum protection for operator and machine. Application rhenus FU 51 is primarily used for any heavy-duty machining operation of steel, cast iron and aluminium materials on individual machines, machining centres and central systems. Properties whitish, finely dispersed emulsions universal application high stability, low drag out losses good sump life of emulsions low foaming at different water qualities good skin tolerance due to low pH-values (8,0-8,8) **Technical Data** Emulsion Concentrate Viscosity Mineral oil pH-value Corrosion 20 °C content fresh preparation protection (mm²/s) % at 5 % (DIN 51360/1) at 2,5 % approx. 160 approx. 50 9.2 R0-S0 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 and steel: from 5 % Machining of casting: from 6 % The concentration of the operating emulsion can be determined by means of a refractometer. The Brix value multiplied by the refractome ter value equals the concentration in %. Sometimes reading of scale is more difficult with older emulsions because of the more

Refractometer factor 0,9

coarse dispersity.

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, guality 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.

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