

EMULCUT 130

WATER DILUTABLE METALWORKING FLUID

DESCRIPTION

EMULCUT 130 is a modern metalworking fluid.

The metalworking fluid is suitable for the machining of steel, grey cast iron and aluminium.

EMULCUT 130 is applicable in the following processes: turning, drilling and milling.

Special additives help to inhibit the staining of aluminum components.

Emulcut 130 is also suitable for mixed metal machining where typically steel and cast iron alloys are present. These materials can also be machined with concentrations of 6 - 7 %.

EMULCUT 130 is a semi synthetic metalworking fluid, containing mineral oil and ester. The finely dispersed emulsion provides low fluid drag out. The raw material choice helps to provide a high pH stability, good tank life, with excellent corrosion prevention. Special inhibitors provide effective protection against nitrosamine formation.

EMULCUT 130 emulsions are recommended to be made up using proprietary coolant mixing equipment.

BENEFITS

- free from boron and formaldehyde
- low drag out
- stable emulsion
- very good low foam behaviour

TECHNICAL DATA

Oil acceptance characteristic	demulsifying
Oil droplet dispersion	fine
Boron/FRB free	✓
TRGS-611-compliant	✓
Corrosion prevention, 5 % in water with 20 °dH [356 ppm] (DIN 51360/2)	Note 0
Preparation water quality	5 – 20 °dH [90 – 370 ppm CaCO ₃]
Foam behaviour	low
Storage temperature	5 - 35 °C avoiding frost
Operating temperature	< 40 °C
Shelf life	observe the use by date on the container

PHYSICAL DATA

Appearance/20 °C (visual)	clear, slightly turbid, yellow liquid
Density/20 °C (ASTM D 7042)	approx. 1.005 g/cm ³
Viscosity/20 °C (ASTM D 7042)	approx. 60 mm ² /s
pH value/5 %/20 °C (DIN 51369)	approx. 9.5

FACTORS FOR THE DETERMINATION OF CONCENTRATION

Acidimetric titration up to pH 4: 0.8*

Acidimetric titration up to pH 7: 1.3*

Refractometer: 2.4

*) Method used: Titration of a 10 ml sample with 0.1 n hydrochloric acid

USUAL APPLICATION CONCENTRATIONS

Drilling, turning, milling: 6 – 10 %

Only valid in combination with EC Safety Data Sheet

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