



## TECHNICAL DATA SHEET

# Zubora 10 H Plus FF

Universally applicable cooling lubricant for up to medium heavy machining operations

### PRODUCT DESCRIPTION

- + water-miscible cooling lubricant
- + on the basis of mineral oil
- + free of formaldehyde releasers
- + long-term stable
- + high corrosion protection, even at a low concentration
- + excellent resolubility and therefore improved machine cleanliness
- + REACH-compliant substances
- + resistance of plastics as well as of paints and coatings according to VDI 3035

As the product does not contain any secondary amines, there is no risk of formation of nitrosamines according to the current state of knowledge.

Furthermore, **Zubora 10 H Plus FF** is inhibited against formation of nitrosamines, this means that even if there are any secondary amines and nitrites (e. g. through foreign carry-over), no stable N-nitrosamines can be formed. Even when exceeding the limit value for nitrite according to TRGS 611 a partial or complete change of the emulsion is not necessary.

### CHARACTERISTICS

Density/15°C / DIN EN ISO 12185	990 kg/m <sup>3</sup>
Viscosity/20°C / ASTM D 7042	190 mm <sup>2</sup> /s
pH-value (5 % in H <sub>2</sub> O) / DIN 51 369	9.4
Cast iron chips test (1:20) / DIN 51 360/T2	Corrosion degree 0
Mineral oil content	42 %

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Water hazard class, concentrate	2
Water hazard class, emulsion	(< 22,2 %) 1
Correction factor for determination of the concentration - refractometer	1.1

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#### APPLICATION

Universal cooling lubricant, very well suited for grinding.

**Zubora 10 H Plus FF** is especially suitable for metal cutting operations of steel and cast iron. The product can be used up to medium difficult cutting operations.

By using **Zubora 10 H Plus FF** you will permanently increase the economic efficiency of your production. The product is suitable for use in individually filled machines as well as in central systems.

#### Recommended hardness of the preparation water:

12 to 24° dH.

#### WORKING CONCENTRATION

Metal cutting approx. 5 - 7%  
Grinding approx. 3 - 4%

#### STORAGE

Recommended storage temperature: +5 °C up to max. +40 °C.

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### MISCELLANEOUS

Zubora cooling lubricants and our guide and slide way oils **Divinol T 3 EP ISO 32 / Divinol T 6 EP ISO 68 / Divinol T 8 EP ISO 100 / Divinol T 12 EP ISO 220** are optimally compatible with each other. The combined use shows excellent de-emulsification properties, i.e. mixtures of emulsions and slide way oils separate quickly. Black stains can be excluded to a great extent.

If there are increased demands on **corrosion protection**, e. g. for external transport, we recommend our anti-corrosion agents containing hydrocarbons (**Multicor dewatering fluids**). They are optimally adapted to our water-miscible cooling lubricants.

Benefit from our service, we will gladly advise you and develop individual application recommendations for your process. Please also note the material safety data sheet.

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