

# Technical Data Sheet

## Zubora 6000 H EP

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### Product description

- water-miscible high performance cooling lubricant on the basis of synthetic ester
- free of boron
- free of mineral oil
- bactericide-free
- long-term stable
- with polar additives
- with a high content of EP-additives
- free of formaldehyde
- REACH-compliant substances
- resistance of plastics as well as of paints and coatings according to VDI 3035

**Zubora 6000 H EP** is inhibited against the formation of nitrosamines, which means that even if there are any secondary amines and nitrites (e. g. through foreign carry-over), no stable nitrosamines can be formed. Therefore, in case of exceeding the limit value for nitrite according to TRGS 611, it is not necessary to make a partial or complete change of the emulsion.

### Characteristics

Density/15°C / DIN EN ISO 12185:	980 kg/m <sup>3</sup>
Viscosity/20°C / ASTM D 7042:	105 mm <sup>2</sup> /s
pH-value (5 % in H <sub>2</sub> O) / DIN 51 369:	9.5 (after 4 to 5 days: approx. 9.2)
Cast iron chips test (1:20) / DIN 51 360/T2:	Corrosion degree 0
Water hazard class, concentrate:	1
Correction factor for determination of the concentration - refractometer:	1.1

### Application

**Zubora 6000 H EP** is suitable for most difficult machining processes like e. g. deep hole drilling, reaming, thread forming, grinding, thread cutting, milling/hobbing, drilling (pocket hole drilling with guiding beads), turning and sawing of high-strength steels.

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The necessary working concentration depends on the difficulty of the operation and the material.

### Working concentration

Grinding: 5 - 8 %  
Most difficult  
metal cutting processes: 8 - 10 %

### Storage

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

### Miscellaneous

This product is dermatologically tested. An Epicutan-test confirms the good skin compatibility.  
We will send you the test certificate on request.

**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.

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