

Technical Data Sheet

Zubora TEP

Product description

- clear water-soluble cooling lubricant with low foaming tendency
- free of mineral oil
- free of boron
- free of formaldehyde
- on the basis of fully synthetic anionic and non-ionic lubricating components as well as high-effective corrosion inhibitors
- mixed with tap water, it becomes a clear solution which enables a good observation of the process
- 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 TEP is inhibited against the formation of nitrosamines, i.e. if there are secondary amines and nitrite due to foreign carry-over e.g., no stable N-nitrosamines can be formed. Therefore, when exceeding the limit value for nitrite according to TRGS 611 a partial or complete change of the working solution is not necessary.

Characteristics

Density/15°C / DIN EN ISO 12185:	1040 kg/m ³
Viscosity/20°C / ASTM D 7042:	35 mm ² /s
pH-value (5 % in H ₂ O) / DIN 51 369:	9.5
Cast iron chips test (1:20) / DIN 51 360/T2:	Corrosion degree 0
Water hazard class, concentrate:	1

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Application

Zubora TEP is used as coolant solution especially for grinding cast iron, hardened- and tempering steel, free cutting steel as well as non-ferrous heavy metals. Due to selected highly effective EP additives Zubora TEP is suitable for difficult cutting processes.

The product can be used for machining steel, cast iron and aluminium. Moreover, Zubora TEP is suitable for machining sensitive aluminium alloys as AL 2024 and AL 7075. Due to a special formulation Zubora TEP is particularly long-term stable. The EP-additives effect a longer tool life and enable the working with high cutting speeds. Thus, a high process security can be guaranteed even for very difficult working operations. This advantage guarantees high flexibility for different cutting processes mainly in central systems and working centres.

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

Working concentration

grinding from 4 %
drilling/milling: approx. 5 %
reaming/sawing: approx. 10 %

Storage

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

Miscellaneous

This product is dermatologically tested. TEWL (transepidermal loss of water) confirms 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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