



TECHNICAL DATA SHEET

Zubora TDG

Fully synthetic, water-soluble cooling lubricant especially for grinding

PRODUCT DESCRIPTION

- + clear water-soluble cooling lubricant with low foam tendency
- + mineral oil-free
- + free of formaldehyde releasers
- + on the basis of fully synthetic anionic and non-ionic lubrication components as well as very effective corrosion inhibitors
- + mixed with tap water, it becomes a clear solution which enables a good observation of the grinding process
- + excellent resolubility and therefore improved machine cleanliness

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 TDG** 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	1090 kg/m ³
Viscosity/20°C / ASTM D 7042	12 mm ² /s
pH-value (3 % in H ₂ O) / DIN 51 369	9.3
Cast iron chips test (1:20) / DIN 51 360/T2	Corrosion degree 0
Water hazard class, concentrate	2

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Water hazard class, emulsion	(< 22,2 %) 1
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Correction factor for determination of the concentration - refractometer	1.7
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APPLICATION

Zubora TDG is used as coolant solution for grinding operations involving steel, cast iron, non-ferrous heavy metals and aluminium.

Recommended hardness of the preparation water:

4 to 20° dH.

WORKING CONCENTRATION

Fine metal cutting: 3 - 7 %

STORAGE

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

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.

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2 / 3



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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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3 / 3