



TECHNICAL DATA SHEET

Zubora 57 S Ultra

Boron-free, semi-synthetic high-performance cooling lubricant
with a high content of polar additives and EP/AW-additives

PRODUCT DESCRIPTION

- + semi-synthetic, water-miscible high-performance cooling lubricant
- + on the basis of mineral oil
- + free of boron
- + free of formaldehyde releasers
- + with high content of polar additives
- + with EP/AW-additives
- + long-term stable
- + excellent corrosion protection
- + 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.

As **Zubora 57 S Ultra** is inhibited against the formation of nitrosamines no stable nitrosamines can be formed, even if there are any secondary amines and nitrites (e. g. due to external carry-over). Therefore, in case of exceeding the limit value for nitrite according to TRGS 611, it is not necessary to change the emulsion partially or completely.

CHARACTERISTICS

Density/15°C / DIN EN ISO 12185

960 kg/m³

Viscosity/20°C / ASTM D 7042

125 mm²/s

pH-value (5 % in H₂O) / DIN 51 369

9.3

Cast iron chips test (1:20) / DIN 51 360/T2

Corrosion degree 0

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Mineral oil content	30 %
Water hazard class, concentrate	2
Water hazard class, emulsion	(< 16,6 %) 1
Correction factor for determination of the concentration - refractometer	1.2

APPLICATION

Due to the high content of polar additives as well as EP-additives **Zubora 57 S Ultra** can also be used for difficult machining operations. Due to the innovative formulation a high process security can be guaranteed.

It is suitable for machining of many materials from normal to hardened steel grades, aluminium or cast iron materials.

Zubora 57 S Ultra is designed for use in soft water and shows special foaming characteristics with prepared water quality of up to 12° dH.

Recommended hardness of the preparation water:

3 to 12° dH.

WORKING CONCENTRATION

medium cutting operations	5 - 7 %
difficult cutting operations (e. g. reaming)	8 - 10 %

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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