ZUBORA UNIVERSAL

Description:

- water-miscible cooling lubricant
- based on mineral oil
- applicable for all-purposes
- long-term stable
- high corrosion protection

As the product does not contain any secondary amines, there is no danger of nitrosamine formation according to our present knowledge.

Furthermore, **ZUBORA UNIVERSAL** 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:

Colour		1.5	DIN ISO 2049
Density/15°C	kg/m³	1000	DIN 51 757
Viscosity/20°C	mm²/s	300	DIN 51 562
pH-value (5 %)		9.1	DIN 51 369
cast iron chips test	(1:20)	0	DIN 51 360/T2
Mineral oil content	%	45	
Correction factor to determine the concentration :			
Refractometer		1.1	

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Zeller+Gmelin
Mineralöle · Druckfarben · Chemie

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Application:

ZUBORA UNIVERSAL is suitable for metal cutting operations involving steel, cast iron, aluminium and non-ferrous metals. It can be used up to medium difficult operations. Furthermore **ZUBORA UNIVERSAL** is very suitable for grinding.

Working concentration:

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

ZUBORA UNIVERSAL is dermatologically tested. TEWL (transepidermal loss of water) and Epicutan-test confirm good skin compatibility.

Storage:

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

ZUBORA cooling lubricants and our guide way 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 most 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 extend.

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