

STRUB SK2 STEEL

Double concentrate for the production of universal cooling lubricant concentrates, biobalanced



Art.-No. 33585

Description

Water-soluble cooling lubricant of the latest generation for many operations. Using a newly developed biobalanced system, this water-miscible cooling lubricant does not require additional bactericides as long as the specified concentrations are maintained.

Application

STRUB SK 2 STEEL is a super concentrate and can be used diluted in a 1:1 ratio with tap water (also soft water with ~1°dH). The possible concentrations as well as the dilution series (corrosion test filter/chips) can be seen on page 3. The product has been specially developed as a high tech biobalanced cooling lubricant for steel, steel alloys as well as for the universal metal cutting market. We recommend diluting STRUB SK 2 STEEL with 50% water and using this as a concentrate for the end user.

STRUB SK2 STEEL is a product for operations such as milling, drilling, turning, etc. and for machining various metals.

Features and advantages

- excellent cutting properties
- skin friendly due to low pH range (8.8 - 9.5)
- no control with bactericides and fungicides, because it is protected by selective bacterial flora
- low foaming, even in case of low water hardness
- low consumption
- low discharge
- good washability properties

Mixing ratio

STRUB SK 2 STEEL / 50 % Water

Concentration	Refractometer reading	Effective concentration
- Grinding	Min. 3.4%	Min. 6%
- Turning	3.4% - 3.9%	6% - 7%
- Drilling / Milling	3.9% - 4.5%	7% - 8%
- Reaming	4.5% - 5.6%	8% - 10%
- Thread cutting	5.6% - 8.4%	10% - 15%
- Sawing	5.6% - 8.4%	10% - 15%
- Deep hole drilling	5.6% - 8.4%	10% - 15%

The information in this technical data sheet is based on general knowledge and application possibilities. STRUB + Co. AG is not liable for damage resulting from improper use of the products. The industry-standard measurement and production tolerances apply to the specified characteristic. Generally, no legal binding can be derived from these data. Our products are subject to continuous further development. Therefore, STRUB + Co. AG reserves the right to change all technical data in this data sheet at any time and without prior notice.

Technical data

	SK2	50:50
Appearance	brownish	brownish
Density at 20°C	0.960 g/cm ³	0.980 g/cm ³
Viscosity at 40°C	46.4 mm ² /s	27.1 mm ² /s
Emulsion type 5% in dist. Water	---	transparent
pH value 5% in dist. Water	---	~ 9.8
Factor Refractometer reading	---	1.80
<p>Do not store below 15°C or above 40°C. Do not expose the container to direct sunlight. If the cooling lubricant has nevertheless been exposed to temperatures below 15°C or even in the freezing point range for a short time, the container should be stored at room temperature for 3 days and then the concentrate must be stirred vigorously until it is clear or homogeneous.</p>		

Transport

ADR/SDR No dangerous goods

Disposal

LVA VeVA / EAK: Concentratre 12 01 07
 Emulsion 12 01 09

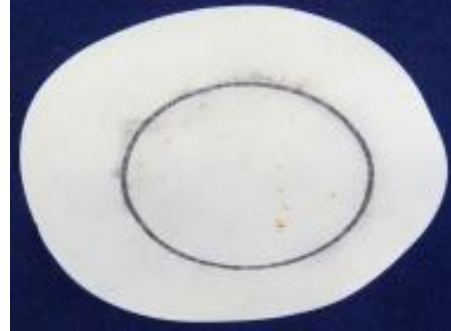
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STRUB SK 2 STEEL - Corrosion test filter / chips after 24h

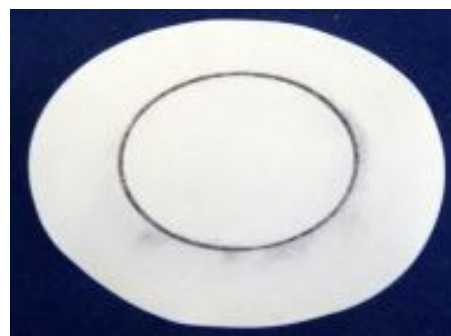
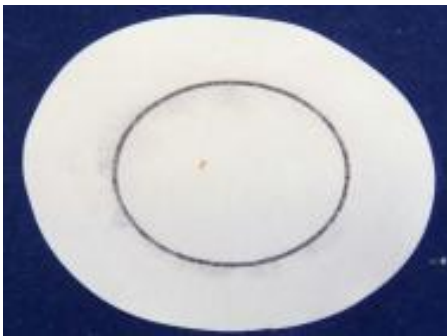
The dilution 50 SK2 STEEL:50 was tested in dem. STRUB water.

From this the different concentrations in dem. Water STRUB were created.

<p>50% SK2 + 50% dem. Water STRUB from this a 3% emulsion in dem. Water STRUB created Degree of corrosion: 4 / 4</p>	<p>50% SK2 + 50% dem. Water STRUB from this a 4% emulsion in dem. Water STRUB created Degree of corrosion : 2-3 / 4</p>
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<p>50% SK2 + 50% dem. Water STRUB from this a 5% emulsion in dem. Water STRUB created 1 Corrosion point - 1 / 4</p>	<p>50% SK2 + 50% dem. Water STRUB from this a 6% emulsion in dem. Water STRUB created Degree of corrosion : 0 / 4</p>
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<p>50% SK2 + 50% dem. Water STRUB from this a 7% emulsion in dem. Water STRUB created Degree of corrosion : 0 / 4</p>	<p>50% SK2 + 50% dem. Water STRUB from this an 8% emulsion in dem. Water STRUB created Degree of corrosion : 0 / 4</p>
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