

STRUB Spindelfluid XLI++ Ready

Ready-to-use corrosion protection fluid for spindle cooling systems



Art.-No. 32020

Description

STRUB Spindle Fluid XLI ++ READY is a ready-to-use corrosion protection fluid for spindle cooling systems. It is used especially where there is not enough clean water available for mixing products. The passivators contained in the product provide long-term protection of various materials against corrosion. In particular, they prevent electrochemical corrosion and protect materials such as aluminum, non-ferrous and ferrous metals, cast iron (not for galvanized surfaces) from changes or corrosion. In the case of high-speed, high-performance motor spindles, the drive shafts can be cooled trouble-free with STRUB Spindle Fluid XLI ++ Ready. The coolant can also be used in all other, less stressed systems.

Advantages

- prevents electrochemical corrosion
- excellent cavitation protection
- low maintenance, long-term protection
- environmentally friendly

Specifications and performance profile

STEP-TEC (Approval)

Application

STRUB Spindelfluid XLI ++ READY is ready for use, do not add water! Optimum operating conditions such as temperature-stabilized cooling unit increase the service life of the coolant. An average operating temperature of max. 25°C protects elastomers very effectively in the long term.

Technical data

Appearance		greenish - bluish / transparent
Density at 20°C	g/cm ³	1.030
pH value		9.2 - 9.5
Refractometer factor		1.5
Concentration refractometer	%	27 - 29
Effective concentration	%	40 - 44
Range of application	°C	5 - 80
Storage temperature	°C	5 - 35 (original container)
Max. Storage time		12 months (sealed in original container)

Transport

ADR/SDR No dangerous goods

Disposal

LVA VeVA / EAK 12 01 99

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.

Instructions and application of STRUB Spindlefluid XLI++ Ready

Change of the spindle fluid

System cleaner is added to the used spindle fluid (use concentration depending on the contamination, see PDS system cleaner) and work continues for 24-48 hours.

Drain the system completely and clean it thoroughly. If the circuit is heavily contaminated, we recommend rinsing it again with clean softened water for another 30 minutes. Then refill with STRUB Spindle Fluid XLI++ Ready.

For the disposal of the used spindle fluid, observe the disposal guidelines.

First commissioning of the spindle cooling system

The system must be cleaned of contamination (solids, microbial contamination) before initial start-up. Otherwise, the service life of STRUB Spindlefluid XLI++ Ready will be greatly reduced and there is a risk of damage to the elements.

Flush the circuit with a mixture of STRUB Spindlefluid XLI++ Ready and system cleaner (concentration used depending on the contamination, see PDS system cleaner) for 2-3 hours.

Drain the circuit completely.

Fill system with STRUB Spindle Fluid XLI++ Ready according to instructions.

For the disposal of the used spindle fluid, observe the disposal guidelines.

Maintenance

The STRUB Spindlefluid XLI++ Ready requires a low-maintenance effort.

In order to ensure long-term protection, stability and quality, we recommend regular checks (every 3 months) of the following parameters:

Appearance

Odor

pH value

Concentration

Adjustment of concentration:

If the concentration needs to be reduced, due to evaporation loss this should be topped up with clean softened water.

Example: Actual concentration 40%, target concentration 30%, tank volume 28 liters

$$\text{Top-up quantity} = 28 - \left(\frac{28}{40} \times 30 \right) = 7 \text{ Liter}$$

7 liters of clean softened water should be added.

Disposal

The used spindle coolant must not be discharged into the sewage system.

It must be disposed of in the same way as cooling lubricants. See disposal code.

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