

# Antifreeze Super ESX Fertigmischung 30%

## High-performance cooling mixture for cooling high-frequency spindles

### DESCRIPTION:

**Antifreeze Super ESX Fertigmischung 30%** is a high-performance cooling mixture for cooling spindles in machine tools or woodworking machines. The heat during the machining process is efficiently dissipated due to the special composition. **Antifreeze Super ESX Fertigmischung 30%** efficiently protects the machine against corrosion and contains neither nitrite nor phosphate and is amine-free. **Antifreeze Super ESX Fertigmischung 30%** can be used down to -20 °C.

### ADVANTAGES:

- due to the high boiling point there is a long-term protection
- very good compatibility and protection for aluminum, non-ferrous and ferrous metals
- neutral towards rubber and plastic parts, as well as sealing materials
- Effectively protects against electrochemical corrosion
- good heat capacity
- low foaming
- Resistant to fungi and bacteria

### APPLICATIONS:

**Antifreeze Super ESX Fertigmischung 30%** is a ready mix and can be used directly.

### First implementing of a spindle cooling system:

Before a cooling circuit is put into operation for the first time, it must be cleaned from solids and germs. Otherwise there is a risk that elements will be damaged or the coolant will spoil. The circuit should be cleaned with 1% Boss Spindle Cleaner for about 2 hours, then completely discharge the circuit. Fill the coolant tank with **Antifreeze Super ESX Fertigmischung 30%** according to the filling instructions.

### Service:

**Antifreeze Super ESX Fertigmischung 30%** should be maintained according to the specifications of the machine. It is recommend to check the long-term corrosion protection by regularly checking the following parameters:

1. Appearance
2. Odor
3. Concentration
4. pH value

### Coolant Replacement:

We recommend to exchange **Antifreeze Super ESX Fertigmischung 30%** per annum. With good maintenance, the coolant can be used longer if all technical values are in the tolerance range.

### Procedure when changing:

1. Add 1% Boss Spindle Cleaner to the old coolant while continuing to work for 8-24 hours
2. Discharge the container and clean it thoroughly. Follow the waste removal guide lines.
3. If the cooling circuit is heavily contaminated, we recommend rinsing with clean water for 10 minutes.

### STORAGE CONDITIONS:

Please store at clean and dry location in closed containers. We recommend to store the goods inside the building and to protect heat and direct sun exposure. For further information see also details in the MSDS (Material Safety Data Sheet).

Do not use galvanized materials for mixing vessels or storage tanks.

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### Technical specifications:

Antifreeze Super ESX Fertigmischung 30%			
Appearance		Blue, clear liquid	
Density 20 °C	g/cm <sup>3</sup>	1,14 ± 0,01	DIN 51757
pH value		8 - 9	DIN 51785
Freezing point	°C	-20	ASTM D 5950

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It is the user's responsibility, to test the functional safety of the product in the field of application and to ensure a careful use of the product. Prior of using the product, we recommend our customers a personal consultation with one of our contact persons at Boss Lubricants GmbH & Co. KG, to receive comprehensive information about the operating conditions and performance characteristics of this product.

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