

# COOL-CORE FLUID

Coolant additive for motor spindle systems  
Formulated for Step Tec

## Description

COOL-CORE FLUID is used as an anti-corrosion additive in motor spindle cooling systems. The substances it contains passivate the various materials and provide long-term protection against corrosion. COOL-CORE FLUID is particularly useful for problem-free cooling of drive shafts where high-power fast-turning motor spindles are used. The additive can naturally also be used in systems that operate under less heavy loads.

## Advantages

- Prevents electrochemical corrosion
- Protects aluminium, ferrous and non-ferrous metals
- Low-maintenance
- Long-term protection

## Maintenance

Diluted COOL-CORE FLUID must be checked periodically in accordance with the spindle manufacturer's specifications. If the coolant needs to be topped up between changes, only diluted COOL-CORE FLUID may be added in accordance with application instructions.

If COOL-CORE FLUID is to be used in a system that was previously filled with a product from another manufacturer, the cooling system must first be treated with 3% CONTRAM CB-1 for 24 hours of operation before the fluid is changed.

For this, please follow the spindle manufacturer's maintenance instructions.

## Application

Only drinking water is acceptable for use when preparing COOL-CORE FLUID and this water must not exceed the following limits:

- Water hardness	3.6 mmol/l
- Chloride	100 ppm
- Sulphate	100 ppm

Mix one part of COOL-CORE FLUID with two parts (1/3:2/3) of drinking water. Only use clean containers for preparing the mixture. Pour the mixture into the prepared cooling system immediately.

If these values are outside the permissible range, COOL-CORE READY must be used.

Where the fluid is used in optimum conditions and the instructions for use are complied with, the coolant can remain in use for up to four years.

Important: Galvanised components or similar materials must not be used either in the cooling system or in the mixing or storage containers.

An average operating temperature of 20-25°C will provide very effective long-term protection for elastomers. These advantageous conditions can be obtained using a cooling unit that will stabilise the temperature.

## Storage

Store COOL-CORE FLUID in the original container at 5 – 35°C. The max. storage period in sealed original containers is four years.

## Technical data

Properties	Unit	Test according to	Values
Colour		DIN ISO 2049	blue
Density at 20 °C	g/ml	ASTM D 4052	1.055
pH value at 20 °C		DIN 51785	7.5 – 8.5
Pourpoint	°C	ASTM D 5950	-50
Factor for hand-held refractometers	%Brix <sup>1</sup>		1.34
Utilization temperature range	°C		4 - 80

Water hazard class: WGK1

Disposal code: VeVA / EWC 120109

The above information is subject to change without prior notice, although they are in accordance with current standards. Performance characteristics indicated are based on usual tolerances which occur during measuring and production using the latest technology. A safety data sheet is available.



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