

DESCRIPTION

FROSTOX® ZF is an environmentally friendly corrosion inhibiting coolant based on propylene glycol. It contains an inhibitor system that provides all the advantages of modern, carboxylic acid based corrosion protection technology.

It is suitable for use in machine tools that possess an integrated or external cooling system for cooling the mechanically or electrically driven tools or spindles. **FROSTOX® ZF** ensures the motor receives optimal cooling.

FROSTOX® ZF contains high-quality corrosion inhibitors and stabilisers to protect all of the different metals and alloys used in the system — including aluminium — in the vapour phase as well. The fluid temperature range for optimal operation is between -35°C and 115°C . In addition to stopping corrosion, the product also prevents scale and deposits from forming in the system.

PHYSICAL AND CHEMICAL PROPERTIES

	Value	Method
Density at 20°C [g/cm^3]	1.040–1.055	DIN 51757
Refractive index	1.430–1.440	DIN 53423
Boiling point [$^{\circ}\text{C}$]	>155	ASTM D1120
Flash point [$^{\circ}\text{C}$]	>100	ASTM D51758
pH value (33 % aqueous solution)	7.7–8.5	ASTM D1287
Reserve alkalinity [ml 0.1N HCl/10 g]	>15.0	ASTM D1121

PERFORMANCE CHARACTERISTICS

FROSTOX® ZF easily exceeds all requirements set forth in ASTM D3306 — particularly with respect to ASTM D1384 and ASTM D4340 corrosion testing — and can be mixed even with hard water in any concentration with no precipitate formation. The following water mixture ratios are recommended:

40 % (v/v) FROSTOX® ZF	Freeze point -25°C
50 % (v/v) FROSTOX® ZF	Freeze point -32°C

CONTAINER AND DELIVERY SPECIFICATIONS

FROSTOX® ZF is colourless. The following container sizes are available:

	10	20	30	litre		60	200	litre
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	20 to 24 tons
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Please inquire for additional container sizes if required.