

## DESCRIPTION

**FROSTOX<sup>®</sup> WS** is an environmentally friendly heat transfer fluid based on propylene glycol.

**FROSTOX<sup>®</sup> WS** can be mixed with water and used (recommended concentration: 30–50% in water by volume) as a heat transfer fluid in heating, air conditioning, ventilation, and solar system applications. The fluid temperature range for optimal operation is –35°C to 130°C. At operating temperatures in excess of 200°C, accelerated aging and chemical alteration of the heat transfer fluid can put the operation of the system at risk.

**FROSTOX<sup>®</sup> WS** contains high-quality corrosion inhibitors and provides optimal protection for all metals and alloys used in the system including aluminium. In addition to stopping corrosion, it prevents scale and deposits from forming in the system. Thanks to the molecular film this product forms, it ensures excellent heat transfer and heat transport.

## PHYSICAL AND CHEMICAL PROPERTIES

	Value	Method
Density at 20°C [g/cm <sup>3</sup> ]	1.000–1.120	DIN 51757
Refractive index	1.426–1.439	DIN 53423
Boiling point [°C]	>155	ASTM D1120
Flash point [°C]	>100	ASTM D51758
pH value (33% aqueous solution)	7.5–8.5	ASTM D1287
Reserve alkalinity [ml 0.1N HCl/10 g]	>5.0	ASTM D1121



## PERFORMANCE CHARACTERISTICS

**FROSTOX<sup>®</sup> WS** 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) <b>FROSTOX<sup>®</sup> WS</b>	Freeze point –23°C
50% (v/v) <b>FROSTOX<sup>®</sup> WS</b>	Freeze point –35°C
60% (v/v) <b>FROSTOX<sup>®</sup> WS</b>	Freeze point –52°C

## CONTAINER AND DELIVERY SPECIFICATIONS

**FROSTOX<sup>®</sup> WS** is dyed a reddish purple. 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.