

Premium antifreeze concentrate

FROSTOX® SF-D12++

Description

FROSTOX® SF-D12++ is a premium monoethylene glycol based antifreeze formulated with Si-OAT corrosion inhibitor technology. This corrosion inhibitor system combines modern, carboxylic acid based corrosion inhibitor technology with the advantages of silicate antifreezes. The result is optimal long-term stability and protection against corrosion. **FROSTOX® SF-D12++** contains no nitrites, amines, phosphates, or borates.

OEM approvals

FROSTOX® SF-D12++ is approved by the following manufacturers:

- ▶ Audi: VW TL 774 G
- ▶ Lamborghini: VW TL 774 G
- ▶ Skoda: VW TL 774 G
- ▶ Bentley: VW TL 774 G
- ▶ Porsche: VW TL 774 G
- ▶ Volkswagen: VW TL 774 G
- ▶ Bugatti: VW TL 774 G
- ▶ Seat: VW TL 774 G
- ▶ Zeppelin: ASTM D4985
- ▶ Caterpillar: ASTM D4985

Physical and chemical properties

	Value	Method
Density at 20°C [g/cm ³]	1.110–1.140	DIN 51757
Refractive index	1.425–1.438	DIN 53423
Boiling point [°C]	>170	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/10g]	>5.0	ASTM D1121

Performance characteristics

FROSTOX® SF-D12++ 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 coolant-to-water mixture ratios are recommended:

40% (v/v) FROSTOX® SF-D12++	Freeze point –25°C
50% (v/v) FROSTOX® SF-D12++	Freeze point –37°C
60% (v/v) FROSTOX® SF-D12++	Freeze point –52°C

Container and delivery specifications

FROSTOX® SF-D12++ is dyed reddish purple. The following container sizes are available:



1 | 1.5 litre



3 | 5 | 10 | 20 | 30 litre



60 | 200 litre



20 - 24 tons

Please inquire for additional container sizes if required.