

### 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 <sup>3</sup> ]	1.110–1.140	DIN 51757
Refractive index	1.425–1.438	DIN 53423
Boiling point [°C]	>170	ASTM D1120
Flash point [°C]	>110	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® 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 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 to 24 tons				

Please inquire for additional container sizes if required.