



Very low viscosity, non-toxic secondary refrigerant antifreeze. Based on Potassium Formate blended with BS6580 proven corrosion, scale and biological inhibitors.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name

Globaltherm® XLT
Low temperature fluid

Company Information

Globaltherm, Cold Meece Estate, Cold Meece, Stone, Stafford, ST15 0SP, UK

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Web

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2. PRODUCT DESCRIPTION

Globaltherm® XLT has been specifically formulated from Potassium Formate for use as a non-toxic secondary refrigerant antifreeze in process cooling, refrigeration and air conditioning systems. It has much improved thermal efficiency compared to glycol based solutions.

It contains corrosion inhibitors to protect metals commonly found in cooling, refrigeration and air

conditioning systems. It has been tested in accordance with BS5117 and found to meet BS6580 corrosion standards for mild and stainless steel, aluminium, copper, brass and cast iron. Zinc and galvanised components are not recommended for use with closed loop cooling or heating systems.

Globaltherm® XLT contains scale and biological inhibitors to help prevent fouling - thus promoting long operational life and high thermal efficiency.

Globaltherm® XLT mixtures are readily biodegradable (90% over ten days) to presence and accumulation in the environment.

Globaltherm® XLT is supplied Ready-To-Use and premixed with the necessary weight of UltraPure™ water to achieve the desired freeze protection.

Globaltherm® XLT is a clear liquid with a low viscosity. It is salty to the taste and has a non-pungent, characteristic aroma.

Density: 1.2 - 1.4 g/cm³

pH: 8.0 - 9.5 depending on inhibitors.

Boiling point: >100°C

2. APPLICATION

As per BSRIA guide AG 1/2001.1 all pipe-work systems should be clean and free from biological contamination prior to commissioning.

To minimise corrosion, air* ingress and exposure should be minimized. A pressurised system is best.

*Oxygen feeds the corrosion process which consumes inhibitors.

Frost Protection °C	Viscosity M Pas (cP) at 20°C	Thermal Conductivity (W/mK)	Density at 20°C (g/cm ³)
-50°C	2.1	0.53	1.365

Note: When measuring the percentage of Globaltherm® XLT use a refractometer.

Health and Safety: Please refer to the associated Safety Data Sheet.

Shelf Life: 1-3 years when stored in sealed containers out of direct sunlight.

Available in: 5, 10, 15, 20, 25, 205, and 1,000 litre containers and bulk tankers.

Phone: +44 (0) 1785 760555; fax: +44 (0) 1785 760444 to ask about Thermocare® preventative maintenance programmes and fluid testing and analysis.