



# Cooltrans CTS™ Inhibited MPG

**DESCRIPTION:**

Kilfrost Cooltrans CTS™ is a high performance, multi-component inhibited BIO based PDO heat transfer fluid designed for secondary refrigerant and industrial cooling and applications. Cooltrans CTS offers a saving on energy by up to 40% when compared to its petroleum based counterparts, eg MPG. Provides improved hydraulic performance and lower pressure drops in the system.

The product has been specially designed to deliver higher resistance to degradation, scale, bacterial growth and corrosion. The product is tested to and exceeds ASTM D1384-05 corrosion test standard to offer excellent freeze protection, cleaner circuits, efficient heat transfer and long term cost benefits to system maintenance. The inhibitor formulation is based on a patented organic acid technology, free from amines, phosphates, nitrites, silicates, borax or molybdenates. When added to the system at the minimum recommended dose rate, the product is biostatic and no requirement for a further biocide is needed. When dosed to a clean system, the product will prevent fouling of the internal heat exchange surfaces, preserving the heat transfer efficiency and reducing system downtime.

**ADVANTAGES:**

- \* High performance sustainably sourced BIO based PDO non-petroleum based antifreeze.
- \* Contains no carcinogenic, mutagenic or toxic to reproduction additives.
- \* Outperforms requirements of ASTM D1384-05 corrosion tests.
- \* Requires up to 40% less energy than petroleum based products.
- \* Liquid formulation supplied as concentrate.
- \* Can be supplied as dilute product (ready to use).

**APPLICATION:** Add to the system as determined by required freeze point. A minimum 25% product is required in the system to provide adequate corrosion protection.

Freeze Point °C	Product Volume % v/v	Refractive index
-10	27.4	1.3614
-11	29.5	1.3636
-12	31.4	1.3657
-13	33.2	1.3677
-14	35.0	1.3696
-15	36.6	1.3714
-16	38.2	1.3731
-17	39.6	1.3747
-18	41.0	1.3763
-19	42.4	1.3777
-20	43.7	1.3791
-25	49.2	1.3851
-30	53.6	1.3899
-35	57.3	1.3940
-40	60.7	1.3975

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**DOSING EQUIPMENT:** A complete range of dosage and control equipment is available to provide the most effective application of water treatment chemicals to your system.

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**DELIVERY OPTION:** Cooltrans CTS™ is packed in 25L kegs, 200L drums and 1,000ltr non-returnable IBC's.

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**NOTE ON GALVANISED METALS:**

Cooltrans CTS™ and any glycol based heat transfer fluids should not be used in systems containing galvanised metals. Glycol based fluids can react with the zinc that is present in galvanised materials leading to physical damage to the operating system and degradation of the heat transfer fluid.

**Metal Mass Loss – Cooltrans CTS™**

Product significantly outperforms the requirements of the ASTM D1384-05

