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SAFE-T-THERM® LC 25 Product Data Sheet

Inhibited Propylene Glycol Based Heat Transfer Fluid

SAFE-T-THERM® LC 25 fluid is an inhibited propylene glycol solution designed for use in single-phase, direct-to-chip data center applications for heat transfer and corrosion protection. SAFE-T-THERM® LC 25 is designed to provide efficient thermal transfer in technology cooling systems, while also sustaining flow and thermal conduction by inhibiting corrosion and biofilm formation.

SAFE-T-THERM® LC 25 is a formulation of 25 percent propylene glycol and a specially designed industrial package of corrosion inhibitors. SAFE-T-THERM® LC 25% solution provides freeze protection to +15°F (-9°C).

SAFE-T-THERM® LC 25 includes an orange dye, for leak detection. SAFE-T-THERM® LC 25 is designed to protect components commonly found in single-phase direct-to-chip cooling systems. SAFE-T-THERM® LC 25 can also be used with aluminum at temperatures below 150°F (66°C). At temperatures above 150°F (66°C), use of SAFE-T-THERM® LC 25 is not recommended because the inhibitors will not fully protect aluminum components in the system. SAFE-T-THERM® LC 25 should not be used with galvanized steel or chlorinated polyvinyl chloride (CPVC).

Recommended use temperature range: 20°F to 200°F (-7°C to 93°C)

For health and safety information for this product, contact Houghton for a Safety Data Sheet (SDS).

SAFE-T-THERM® LC 25 Typical Properties	
Properties	Values
Propylene Glycol	25%
Performance Additives and Water	75%
Appearance	Liquid, Clear, Orange
Specific Gravity (15/15°C 60/60°F)	1.030 - 1.040
pH	9.0 - 11.0
Reserve Alkalinity, mL (min)	6
Freeze Point Max	15°F / -10°C

Typical properties, not to be construed as specifications. As use conditions are not within its control, Houghton does not guarantee results from use of the information or products herein; and gives no warranty, express or implied.

NOTE: These figures are examples only and may not be appropriate to your situation. Generally, for an extended margin of freeze protection, you should select a temperature in this table that is at least 3°C (5°F) lower than the expected lowest ambient temperature. Houghton Chemical Corporation recommends a minimum glycol concentration of 25%. At lesser concentrations the likelihood of bacteria growth increases. Also, at less than 25% concentrations there may not be enough inhibitor present to prevent corrosion of the system metals. Additional inhibitors and/or a biostat can be purchased from Houghton Chemical Corporation.

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