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SAFE-T-THERM® GV Product Data Sheet

Inhibited Propylene Glycol-based Heat Transfer Fluid

SAFE-T-THERM® GV heat transfer fluid is an inhibited propylene glycol solution designed for use in hydronic systems that contain galvanized steel for freeze and corrosion protection.

SAFE-T-THERM® GV is designed to protect components in systems that contain galvanized steel. SAFE-T-THERM® GV also includes a blue dye for leak detection. SAFE-T-THERM® GV should not be used with Polyvinyl chloride (PVC), Chlorinated polyvinyl chloride (CPVC) or Neoprene tubing, piping, or other plumbing fixtures and fittings.

For adequate corrosion protection, do not dilute SAFE-T-THERM® GV Concentrate below 30% SAFE-T-THERM® GV / 70% water concentration.

Recommended use temperature range: -50°F to 225°F (-45°C to 107°C).

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

SAFE-T-THERM® GV					
Typical Properties by Concentration					
Properties ¹	Conc.	60%	50%	40%	30%
Propylene Glycol	96%	58.7%	49.1%	39.5%	29.8%
Performance Additives and Water	4%	41.3%	50.9%	60.5%	70.2%
Appearance	Liquid, Clear, Blue	Liquid, Clear, Blue	Liquid, Clear, Blue	Liquid, Clear, Blue	Liquid, Clear, Blue
Specific Gravity (15/15°C 60/60°F)	1.042 - 1.052	1.040 - 1.050	1.036 - 1.046	1.030 - 1.040	1.022 - 1.032
pH	8.9 - 9.9	7.3 - 8.5	7.3 - 8.5	7.3 - 8.5	7.3 - 8.5
Reserve Alkalinity (min)	1.3	0.9	0.5	0.4	0.4
Freeze Point Max	-22°F / -31°C (as 50%)	-49°F / -45°C	-22°F / -31°C	-4°F / -20°C	+10°F / -12°C

¹Concentrate based on volume of Propylene Glycol, mixtures based on volume of SAFE-T-THERM® GV

Typical properties, not to be construed as specifications. As use conditions are not within its control, Houghton Chemical Corporation 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 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 30% concentrations there may not be enough inhibitor present to prevent corrosion of the system metals. Additional inhibitors can be purchased from Houghton Chemical Corporation.

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