HOUGHTON CHEMICAL CORPORATION

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CryptoCool® Product Data Sheet

Inhibited Ethylene Glycol Based Heat Transfer Fluid

CryptoCool® heat transfer fluid is a phosphate-inhibited ethylene glycol solution designed for use in hydronic systems for freeze and corrosion protection. The effectiveness of CryptoCool® heat transfer fluid in preventing corrosion has been proven both in use and in laboratory testing. Using CryptoCool® in place of brine solutions or uninhibited glycol/water solutions lowers maintenance costs and improves heat transfer efficiency.

CryptoCool® includes a fluorescent yellow dye, for leak detection. CryptoCool® is designed to protect components commonly found in residential systems, commercial systems, and data centers. CryptoCool® can also be used with aluminum at temperatures below 150°F (66°C). At temperatures above 150°F (66°C), use of CryptoCool® is not recommended because the inhibitors will not fully protect aluminum components in the system. CryptoCool® should not be used with galvanized steel.

Recommended use temperature range: -60°F (-50°C) to 220°F (104°C)

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

CryptoCool®
Typical Properties by Concentration

Properties[1]	Conc.	60%	50%	40%	35%	30%	25%
Ethylene Glycol	96%	60%	50%	40%	35%	30%	25%
Performance Additives and Water	4%	40%	50%	60%	65%	70%	75%
Appearance	Liquid, Clear; Fluorescent Yellow	Liquid, Clear; Fluorescent Yellow	Liquid, Clear; Fluorescent Yellow	Liquid, Clear; Fluorescent Yellow	Liquid, Clear; Fluorescent Yellow	Liquid, Clear; Fluorescent Yellow	Liquid, Clear; Fluorescent Yellow
Specific Gravity (15/15°C 60/60°F)	1.120 - 1.135	1.085 - 1.100	1.066 - 1.092	1.055 - 1.070	1.050 - 1.065	1.045 - 1.057	1.035 - 1.050
pH 50% glycol	9.0 - 10.5	9.0 - 10.5	9.0 - 10.5	9.0 - 10.5	9.0 - 10.5	9.0 - 10.5	9.0 - 10.5
Reserve Alkalinity (min)	12	6	5	4	4	3	3
Freeze Point Max	-34°F / -37°C (as 50%)	-63°F / -53°C	-34°F / -37°C	-10°F / -23°C	-4°F / -18°C	+4°F / -15°C	+10°F / -12°C

[1]Concentrate based on volume of Ethylene Glycol, mixtures based on volume of CryptoCool®

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 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 can be purchased from Houghton Chemical Corporation.

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