

Inhibited Propylene Glycol-based Heat Transfer Fluid

Thermal Guard PGHD heat transfer fluid is a formulation of 94% propylene glycol and a specially formulated package of industrial corrosion inhibitors. The fluid is dyed fluorescent yellow to assist in leak detection. Thermal Guard provides freeze protection to -60°F (-50°C) and burst protection to -100°F (-73°C).

Recommended use temperature range: -50°F (-45°C) to 325°F (160°C)

PROPERTIES	TYPICAL VALUES	ASTM TEST METHOD
Reserve Alkalinity	15.0 mL min.	D-1121
Specific Gravity @ 60°F	1.053 - 1.063	D-1122
Boiling Point, Reflux	310°F	D-1120
pH 50/50 Solution	9.5 - 10.5	D-1287
Water Inhibitors	6%	D-1123
Total Glycols	94%	E-202

SUITABLE APPLICATIONS

- Ground Source Heat Pumps
- Thermal Energy Storage
- Hydronic Heating Systems
- System Freeze and Corrosion Protection
- Skating Rink Systems
- Fire Sprinkler Systems
- Solar Heating Systems
- Single Fluid Process Heating and Cooling
- Water Based HVAC

GENERAL DESCRIPTION

Color	Florescent Yellow
Odor	Not Offensive
Pack/Unit	Bulk/Drums
Fluid Wt. per Gal.	9.35 - 9.45 lbs./gal.

THERMAL GUARD PGHD FLUID % VOLUME REQUIRED

Temperature (F°)	Temperature (C°)	For Freeze Protection	For Burst Protection
20	-7	18%	12%
10	-12	29%	20%
0	-18	36%	24%
-10	-23	42%	28%
-20	-29	46%	30%
-30	-34	50%	33%
-40	-40	54%	35%
-50	-46	57%	35%
-60	-51	60%	35%

CORROSION TEST RESULTS

Material Tested	ASTM D-1384 Maximum Weight Loss Allowed	Heat Transfer Fluid Results
Copper	10 mg	2 mg
Standard Solder	30 mg	1 mg
Brass	10 mg	2 mg
Steel	10 mg	3 mg
Cast Iron	10 mg	1 mg
Cast Aluminum	30 mg	1 mg

To order, please call Old World Industries, Inc.
Customer Service at 1-800-323-8755.
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