

## Inhibited Propylene Glycol-based Heat Transfer Fluid

Thermal Guard PG heat transfer fluid is a formulation of 96% propylene glycol and specially formulated package of industrial inhibitors that assist in corrosion prevention. Because propylene glycol fluids have low acute oral toxicity, Thermal Guard PG propylene glycol-based fluids are often used in applications where incidental contact with ground or potable water may occur.

**Recommended use temperature range:** -50°F (-45°C) to 250°F (120°C)

### • Efficient Heat Transfer • Excellent Corrosion Prevention

PROPERTIES	TYPICAL VALUES	ASTM TEST METHOD
Reserve Alkalinity	10.0 mL min.	D-1121
Specific Gravity @ 60°F	1.050 - 1.060	D-1122
Boiling Point, Reflux	310°F	D-1120
pH 50/50 Solution	9 - 10.0	D-1287
Total Water & Inhibitors	4%	D-1123
Total Glycols	96%	E-202

## SUITABLE APPLICATIONS

- Secondary Loop Refrigeration
- Solar Heating Systems
- Ground Source Heat Pumps
- Thermal Energy Storage
- System Freeze and Corrosion Protection
- Hydronic Heating Systems
- Skating Rink Systems
- Fire Sprinkler Systems

## GENERAL DESCRIPTION

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

## THERMAL GUARD PG 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	0 mg
Cast Aluminum	30 mg	2 mg

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