



THERMAL CHARGE™

HEAT TRANSFER FLUID

PG

Inhibited Propylene Glycol-Based Heat Transfer Fluid



Nonfood Compounds
Program Listed (Category HT1)
(Registration 145621)



DESCRIPTION:

Thermal Charge PG is an inhibited propylene glycol-based fluid that is registered with NSF as a product in the HT1 category and can be used in food processing industries and applications where incidental contact with foods and beverages, or where contact with potable water could potentially occur. Thermal Charge PG is also used for heating applications and secondary cooling for freeze and burst protection of pipes, and for various deicing, defrosting, and dehumidifying applications where toxicity or environmental concerns exist or where the use of propylene glycol is required by law or regulation. The propylene glycol and inhibitors used in Thermal Charge PG are classified as Generally Recognized as Safe (GRAS) by the FDA.

BENEFITS:

- Low acute oral toxicity
- Freeze protection and burst protection (see Heat Transfer Fluid % Volume Required chart to determine concentration of Thermal Charge PG required to maintain freeze and burst protection at various temperatures or consult your equipment manual)
- Efficient heat transfer
- Industrial inhibitor package provides protection against corrosion
- Meets ASTM D-3306 corrosion protection requirements of the ASTM D-1384 test method, which is the industry test method for corrosion protection of system metals (copper, standard solder, brass, steel, cast iron & cast aluminum)
- Long Service Life

SUITABLE APPLICATIONS:

- Secondary Loop Refrigeration
- Solar Heating Systems
- Ground Source Heat Pumps
- Thermal Energy Storage
- Hydronic Heating Systems
- Skating Rink Systems
- Fire Sprinkler Systems
- Not intended for use in stationary engines

PROPERTIES:

ASTM TEST METHOD

TYPICAL VALUES

Reserve Alkalinity	D-1121	10.0 mL min.
Specific Gravity @ 60°F	D-1122	1.050 - 1.060
pH 50/50 Solution	D-1287	9.0 - 10.0
Total Water & Inhibitors	D-1123	4.0%
Total Glycols	E-202	96.0%
Odor	-	Not Offensive
Fluid Wt. per Gallon	-	8.79 lbs./gal
Color	-	Clear

Part #	UNIT
TDP000	Bulk Concentrate
TDP001	Drum Concentrate

Can also be ordered in pre-diluted formulas if a good quality water source† is not available.

To order, please call **1-800-323-5440** or email commercial@oldworldind.com

For technical support, call 1-800-477-5847

HEAT TRANSFER FLUID % VOLUME REQUIRED*

Thermal Charge PG should be blended with good quality water† to provide the optimal level of freeze and burst protection your system requires.

TEMPERATURE (F°)	(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%

*These figures are examples. For an added range of protection, select a temperature from this chart that is at least 5°F (3°C) lower than the expected lowest ambient temperature. Solutions less than 25-30% may not provide adequate corrosion protection.

†Recommended water specifications are: Water Hardness 100 ppm or less, Chloride 25 ppm or less, Sulfate 25 ppm or less, Calcium 50 ppm or less, Magnesium 50 ppm or less. Thermal Charge PG is also available in pre-diluted formulas if a good quality water source is not available.

CHEMISTRY THAT DRIVES COMMERCE™



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