

THERMAL CHARGE™

HEAT TRANSFER FLUID



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

PG

CONCENTRATE & 50/50

Inhibited Propylene Glycol-Based Heat Transfer Fluid



DESCRIPTION

THERMAL CHARGE PG™ is an inhibited propylene glycol-based heat transfer fluid used for heating applications and secondary cooling applications whereby a low toxic heat transfer fluid is required. In addition to providing freeze and burst protection of pipes, and for various ice making, deicing, defrosting, and dehumidifying applications, this product also is acceptable for use as a heat transfer fluid where there is possibility of incidental food contact (HT1) such as food processing or beverage applications.

BENEFITS

- + **Excellent Low Temperature Pumpability** – Provides freeze protection to -50°F (-46°C)
- + **Registered with NSF as a HT1 product** – Meets US FDA Generally Recognized as Safe (GRAS) requirements and is suitable for use in food and beverage plants
- + **Superior Resistance to Fouling and Corrosion** – Formulated to neutralize degradation compounds, prevent pH from dropping, and provide corrosion protection. Meets ASTM D3306 corrosion protection requirements of the ASTM D1384 test method, which is the industry test method for corrosion protection of system metals (copper, standard solder, brass, steel, cast iron & cast aluminum)
- + **Low Toxicity** – Due to low acute oral toxicity, THERMAL CHARGE PG™ is used in regulated industries such as food, beverage, pharmaceutical, and consumer products
- + **Nonflammable** – Since the flash and fire points of ethylene glycol are above the boiling point of water, glycols present little fire hazard in storage or handling when mixed with water of 20% concentrations or greater

SUITABLE APPLICATIONS

- + Closed-loop Water Based HVAC
- + Cooling Towers and Chillers
- + Food and Beverage Applications
- + Fire Sprinkler Systems
- + Ground Freeze Prevention
- + Ice Making & Skating Rink Systems
- + Irrigation Systems
- + Refrigeration and Freezing
- + Trace Line Insulation & Heating
- + Water Bath Heaters

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
Odor	-	Not Offensive
Fluid Wt. per Gallon	-	8.79 lbs./gal
Color	-	Clear/Colorless

Part #	UNIT
TFP000	Bulk Concentrate
TFP001	Drum Concentrate
TFPW50	Bulk 50/50
TFPW51	55 GAL Drum 50/50

Additional pre-diluted concentrations are available upon request, please contact us to learn more

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.



Distributed by Old World Industries, LLC Northbrook, IL 60062

p 800.323.5440 www.peakhd.com

©2017 Thermal Charge, PEAK and the PEAK Mountain Graphic are Registered Trademarks of Old World Industries, LLC.



peakhd.com