

THERMAL CHARGE™

HEAT TRANSFER FLUID

EG

CONCENTRATE & 50/50

Inhibited Ethylene Glycol-Based Heat Transfer Fluid

DESCRIPTION

THERMAL CHARGE™ EG is an inhibited ethylene glycol-based heat transfer fluid used for process heating and secondary cooling applications, for freeze and burst protection of pipes, and for various ice making, deicing, defrosting, and dehumidifying applications.

BENEFITS

- + **Excellent Low Temperature Pumpability** – Provides freeze protection to -60 °F (-51 °C) and burst protection to -100 °F (-73°C)
- + **Exceptional Resistance to Fouling and Corrosion** – Formulated to neutralize degradation compounds and prevent pH from dropping – improves hardware life
- + **Superior Corrosion Protection** – Utilizes a corrosion inhibitor technology that passivates metal surfaces to prevent corrosion. Meets ASTM D3306 corrosion protection requirements of the ASTM D1384 test method for corrosion, which is the industry test method for corrosion protection of system metals (copper, standard solder, brass, steel, cast iron & cast aluminum)
- + **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
- + **Leak Detection** – Dyed fluorescent pink color to aid in leak detection

SUITABLE APPLICATIONS

- + Closed-Loop Water Based HVAC
- + Cooling Towers and Chillers
- + Fire Sprinkler Systems
- + Gas Dehydration Units
- + Ground Source Heat Pumps
- + Ground Freeze Protection
- + Ice Making & Ice Skating Rink Systems
- + Thermal Energy Storage
- + Secondary Loop Refrigeration
- + Snowmelt Systems
- + Trace Line Insulation & Heating
- + Water Bath Heaters

PROPERTIES

ASTM TEST METHOD

TYPICAL VALUES

Reserve Alkalinity	D-1121	11.0 mL min.
Specific Gravity @ 60 °F	D-1122	1.125 - 1.135
pH 50/50 Solution	D-1287	9.0 - 9.6
Odor	-	Not Offensive
Fluid Wt. per Gallon	-	9.41 lbs./gal
Color	-	Fluorescent Pink



Part #	UNIT
TFA000	Bulk Concentrate
TFA001	Drum Concentrate
TFAW50	Bulk 50/50
TFAW51	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 EG 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	17%	12%
10	-12	26%	18%
0	-18	35%	23%
-10	-23	41%	27%
-20	-29	46%	31.4%
-30	-34	50%	31.4%
-40	-40	55%	31.4%
-50	-46	59%	31.4%
-60	-51	63%	31.4%

*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 EG is also available in pre-diluted formulas if a good quality water source is not available.



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