

## PURUS® PG HEAT TRANSFER FLUID CONCENTRATED & 50/50

Inhibited Propylene Glycol-Based Heat Transfer Fluid

**DESCRIPTION:** PURUS® PG Heat Transfer Fluid is an inhibited propylene glycol-based heat transfer fluid widely used for heating applications and secondary cooling applications whereby a low toxic and food grade 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 application. This product is not for use in automotive or stationary engines.

Closed-Loop Water Based HVA  
Cooling Towers and Chillers  
Food and Beverage Applications  
Fire Sprinkler Systems  
Ground Freeze Protection

Ice Making & Ice Skating Rink Systems  
Irrigation Systems  
Refrigeration and Freezing  
Trace Line Insulation & Heating  
Water Bath Heaters

Trace Line Insulation & Heating

**PERFORMANCE  
BENEFITS:**

Power Generating Systems  
Secondary Loop Refrigeration

- At 50/50 Provides Excellent Low Temperature Pumpability, Freeze protection to -28° F (-33° C) and hot surface protection up to 226° F (108° C)
- Robust Inhibitor Package Increases Component Life – Formulated with a heavy-duty industrial inhibitor package for superior corrosion protection and resistance to fouling. Formulated to control degradation products, while providing corrosion protection and pH stability
- Low Toxicity – Propylene glycol has low acute oral toxicity if accidentally ingested by mammals
- Nonflammable – Because the flash and fire points of glycols 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 yellow color to aid in leak detection
- Superior Corrosion Protection- Meets industry performance requirements ASTM D1384 within ASTM D3306, thus provides corrosion protection of all system metals (copper, standard solder, brass, steel, cast iron & cast aluminum)

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### TYPICAL PROPERTIES\*:

Reserve Alkalinity	D1121	7.5-15 mL min.
Specific Gravity @ 60 °F	D1122	1.056-1.068
pH 50/50 Solution	D1287	9.5 - 10.5
Odor		Not Offensive
Fluid Wt. per Gallon		8.72 lbs./gal
Color		Fluorescent Yellow

Coolant Concentration (% by Volume)

Temperature		For Freeze Protection	For Burst Protection
(°F)	(°C)		
20	-7	19%	13%
10	-12	30%	21%
0	-18	38%	25%
-10	-23	44%	30%
-20	-29	48%	32%
-30	-34	52%	35%
-40	-40	57%**	37%
-50	-46	60%**	37%
-60	-51	63%**	37%

Viscosities cps (mPas)

Temperature		Coolant Concentration % by Volume			
(°F)	(°C)	30%	40%	50%	60%
10	-12	13	27	41	112
0	-18		41	61	178
-10	-23			96	291
-30	-34				498
-40	-40				1590

\*\* At temperatures below 0°F (-18°F) PGHD based fluids can demonstrate increase viscosities >1,000 cps (>1000 mPas) that can promote cold- start pumpability issues within application.

\*Due to continual product research and development, the information contained herein is based on products purchased in the U.S. and subject to change without notification. Typical properties may vary slightly.

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Revised 10/2019

PHTFPGHD p2