

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 applications. This product is not for use in automotive or stationary engines.

Closed-Loop Water Based HVAC
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

PERFORMANCE BENEFITS:

- At 50/50 Provides Excellent Low Temperature Pumpability, Freeze protection to -28° F (-33° 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
- Exceptional Resistance to Fouling and Corrosion- Formulated to control degradations products, while providing corrosion protection and pH stability
- 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)
- Low Toxicity –Due to low acute oral toxicity, Purus PG is used in regulated industries such as food, beverage, pharmaceutical and consumer products
- 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



Nonfood Compounds
Program Listed HT1
Registration # 156649

Concentrate



Nonfood Compounds
Program Listed HT1
Registration # 156650

Prediluted

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TYPICAL PROPERTIES*:

Reserve Alkalinity	D1121	10.0 mL min.
Specific Gravity @ 60 °F	D1122	1.050-1.060
pH 50/50 Solution	D1287	9.0- 10.0
Odor		Not Offensive
Fluid Wt. per Gallon		8.79 lbs./gal
Color		Clear

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) PG 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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