

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

### Inhibited Propylene Glycol-Based Heat Transfer Fluid

#### DESCRIPTION:

PURUS® PG 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.

#### APPLICATIONS:

- 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 and 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 degradation 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

#### TYPICAL PROPERTIES\*:

Reserve Alkalinity  
Specific Gravity @ 60 °F  
pH 50/50 Solution  
Odor  
Fluid Wt. per Gallon  
Color

#### ASTM Test Method

#### Typical Values

D1121 10.0 mL min.  
D1122 1.050 - 1.060  
D1287 9.0 - 10.0  
- Not Offensive  
- 8.79 lbs./gal  
- Clear



Nonfood Compounds  
Program Listed HT1  
Registration #

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 (mPa·s)					
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

PART #	UNIT
17329	55 GAL FS Drum
17330	55 GAL 50/50 Drum

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

\*This product is not for use in automotive or stationary engines

\*\*At temperatures below 0°F (-18°F) PG based fluids can demonstrate increased viscosities >1,000 cps (>1,000 mPa·s) that can promote cold-start pumpability issues within application.