PURUS® PGHD HEAT TRANSFER FLUID
CONCENTRATED & 50/50
Inhibited Propylene Glycol-Based Heat Transfer Fluid

DESCRIPTION:

PURUS® PGHD Heat Transfer Fluid is a formulation of propylene glycol and a specially formulated package of industrial corrosion inhibitors for use in closed systems with copper components and for systems that require reliability in higher temperature operations.

APPLICATIONS:

- Boiler Systems
- Fire Sprinkler Systems
- Hydronic Heating or Cooling Systems
- Ice Making & Ice Skating Rink Systems
- Power Generating Systems
- Secondary Loop Refrigeration
- Snowmelt Systems
- Solar Heating Systems
- Thermal Energy Storage
- Trace Line Insulation & Heating
- Water Bath Heaters

PERFORMANCE BENEFITS:

- 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)

TYPICAL PROPERTIES*:

	ASTM Test Method	Typical Values
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 (°F)	Temperature (°C)	For Freeze Protection	For Burst Protection
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%

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

Viscosities cps (mPa·s)

Temperature (°F)	Temperature (°C)	Coolant Concentration % by Volume 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
17331	55 GAL FS Drum
17332	55 GAL 50/50 Drum

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

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