

ProCharge Heat Transfer Fluid PGHD

Inhibited Propylene Glycol-Based Heat Transfer Fluid

ProCharge PGHD heat transfer fluid is a heavy duty formulation of propylene glycol and a specially formulated package of industrial corrosion inhibitors for use in closed systems with copper and other metal components, and for systems that require reliability in higher temperature operations. This product is not intended for use in vehicle or stationary engine applications.

BENEFITS

- **Excellent low temperature pumpability and hot surface protection**
- **Robust inhibitor package increases component life:** Formulated with a heavy duty industrial inhibitor package for superior corrosion protection and resistance to fouling. Meets the ASTM D3306 requirements for ASTM D1384 which is the industry standard test method to demonstrate corrosion protection of all system metals. Dilutions below 65% volume meet ASTM D8039 requirements for use in heat transfer applications and HVAC systems
- **Low toxicity:** Propylene glycol has low acute oral toxicity if accidentally ingested by mammals
- **Nonflammable:** Because the flash and fire points of ProCharge PGHD are above the boiling point of water, it presents little fire hazard in storage or when mixed with water at concentrations of 20% or greater

APPLICATIONS

- Boiler systems
- Fire sprinkler systems
- Hydronic heating or cooling systems
- Ice-making & skating rink systems
- Power generating systems
- Secondary loop refrigeration

FREEZE/BURST PROTECTION CHART Volume % PROCHARGE PGHD Required			
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%

****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 applications.**

PROPERTIES	ASTM TEST METHOD	% VOL	30%	35%	40%	45%	50%	55%	60%	65%	70%	100%
Specific Gravity @ 60/60 °F	D1122		1.02-1.04	1.03-1.04	1.03-1.04	1.03-1.04	1.03-1.04	1.04-1.048	1.04-1.05	1.04-1.05	1.05-1.06	1.05-1.06
pH of Solution	D1287		9 min	9 min	9 min	9 min	9 min	9 min	9 min	9 min	9 min	9 min†
Reserve Alkalinity, mL	D1121		report	report	report	report	5 min	5 min	5 min	5 min	5 min	10 min
Freezing Point, °F/°C	D1177, D3321, D6660		9/-13	2/-17	-6/-21	-16/-27	-28/-33	-43/-42	<-60/-51	<-60/-51	<-60/-51	<-60/-51†
Burst Point, °F/°C	-		-14/-26	-38/-39	-60/-51	-60/-51	-60/-51	-60/-51	<-60/-51	<-60/-51	<-60/-51	<-60/-51
Boiling Point*, °F/°C	D1120		216/102	217/103 min	219/104 min	220/104 min	222/106 min	223/106 min	225/107 min	227/108 min	229/109 min	310/154 min
Chloride, ppm	D5827		<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Odor	-		Not Offensive									
Color	-		Flourescent Yellow									

* At atmospheric pressure
† At 50/50 dilution

Available in Bulk, 275 Gallon Tote, 55 Gallon Drum, and 50% and 100% in 5 Gallon Pail

NOTE: Values indicated are typical physical properties and are not specification limits. Seller offers no warranty, expressed or implied, concerning the suitability of this product for any particular purpose.

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