

## **Technical Data Sheet**

# ProCharge Heat Transfer Fluid PG Orange

Inhibited Propylene Glycol-Based Heat Transfer Fluid

**ProCharge PG** is an inhibited propylene glycol-based heat transfer fluid for heating and secondary cooling applications for which a low toxicity heat transfer fluid is required. Applications include freeze and burst protection for pipes, ice-making, defrosting, deicing and dehumidifying. It is also registered with the NSF for use where there is the possibility of incidental food or beverage contact (HT1).

#### **BENEFITS**

- Excellent low temperature performance: At a 35/65 mix, provides burst protection to -38°F (-39°C) and excellent low temperature pumpability
- Registered with the NSF as an HT1 product: contains dye permitted for use in food, and is registered with the NSF (HT1) as suitable for use in food and beverage plants where incidental contact with foods, beverages and potable water could occur
- Superior resistance to fouling and corrosion: Formulated to control degradation, while providing corrosion protection and pH stability. Meets ASTM D3306 performance requirements for the D1384 corrosion test, demonstrating excellent protection to all cooling system metals. Dilutions below 65 volume % meet ASTM D8039 requirements for use in heat transfer applications and HVAC systems
- Low toxicity: Low acute oral toxicity enables ProCharge PG to be used in regulated industries such as food, beverage, pharmaceutical, and consumer products
- Nonflammable: Because the flash and fire points 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

#### **APPLICATIONS**

- · Closed-loop water based HVAC
- · Cooling towers and chillers
- · Food and beverage
- Fire sprinkler systems
- Ground freeze prevention
- · Ice-making & skating rink systems
- Irrigation systems
- · Refrigeration and freezing
- Trace line insulation & heating
- Water bath heaters

FREEZE/BURST PROTECTION CHART Volume % PROCHARGE PG Required										
TEMPE	RATURE	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%							

<sup>\*\*</sup>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.

\*DO NOT USE A CONVENTIONAL ETHYLENE GLYCOL HYRDOMETER TO TEST FOR PROPYLENE GLYCOL COOLANTS

PROPERTIES	ASTM TEST % VOL TYPICAL VALUES FOR PROCHARGE PG										
PROPERTIES	METHOD	<b>30</b> %	35%	40%	45%	50%	55%	60%	65%	<b>70</b> %	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 2	217/103 min i	219/104 min	220/104 mir	n 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	-										
* At atmospheric pressure											

### Available in Bulk, 275 Gallon Tote, 55 Gallon Drum

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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