

ProCharge Heat Transfer Fluid EG

Inhibited Ethylene Glycol-Based Heat Transfer Fluid

ProCharge EG is an inhibited ethylene glycol-based heat transfer fluid widely used for process heating and cooling applications, for freeze and burst protection of pipes, and for various ice-making, deicing, defrosting, and dehumidifying applications. This product is not intended for use in vehicle or stationary engine applications.

BENEFITS

- Excellent low temperature performance: At a 50/50% by volume mix, provides freeze protection to -37 °F (-38 °C), burst protection to -60 °F (-51 °C) and excellent low temperature pumpability
- Exceptional resistance to fouling and corrosion: Formulated to control degradation, while providing corrosion protection and pH stability
- Superior corrosion protection: Utilizes an advanced inhibitor technology that passivates metal surfaces to prevent corrosion. 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
- Nonflammable: Because the flash and fire points of ethylene glycol 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 pink color to aid in leak detection

APPLICATIONS

- Closed-loop water based HVAC
- Cooling towers and chillers
- Fire sprinkler systems
- Gas dehydration units
- Ground source heat pumps
- Ground freeze protection
- Ice-making & skating rink systems
- Thermal energy storage
- Secondary loop refrigeration
- Snow melting systems
- Trace line insulation & heating
- Water bath heaters

FREEZE/BURST PROTECTION CHART Weight % ProCharge EG Required

TEMPERATURE		FOR FREEZE PROTECTION	FOR BURST PROTECTION
(°F)	(°C)		
20	-7	17%	12%
10	-12	27%	18%
0	-18	36%	24%
-10	-23	42%	28%
-20	-29	47%	32%
-30	-34	50%	32%
-40	-40	56%	32%
-50	-46	60%	32%
-60	-51	64%	32%

PROPERTIES

ASTM TEST METHOD

% VOL

TYPICAL VALUES FOR PROCHARGE EG

		30%	35%	40%	45%	50%	55%	60%	65%	70%	100%
Specific Gravity @ 60/60 °F	D1122	1.042	1.049	1.054	1.066	1.069	1.076	1.082	1.088	1.09	1.122
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	4/-16	1/-17	-7/-22	-17/-27	-37/-38	-42/-41	<-60/-51	<-60/-51	<-60/-51	-5/-21†
Burst Point, °F/°C	-	-14/-26	-20/-29	-60/-51	-60/-51	-60/-51	-60/-51	<-60/-51	<-60/-51	<-60/-51	nd
Boiling Point*, °F/°C	D1120	220/104 min	221/105 min	222/106 min	224/107 min	225/107 min	227/108 min	230/110 min	235/113 min	238/114 min	295/146 min
Chloride, ppm	D5827	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Odor	-	Not Offensive									
Color	-	Pink									

* 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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Learn more at
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