

# THERMAL CHARGE®

## HEAT TRANSFER FLUID

### PG ORANGE

Inhibited Propylene Glycol-Based Heat Transfer Fluid



Nonfood Compounds HT1



#### DESCRIPTION

Thermal Charge® 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 Thermal Charge® 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

#### SUITABLE 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 % THERMAL CHARGE PG ORANGE	FOR FREEZE PROTECTION	FOR BURST PROTECTION
30/70	9°F (-13°C)	-14°F (-26°C)
35/65	2°F (-17°C)	-38°F (-39°C)

**\*DO NOT USE A CONVENTIONAL ETHYLENE GLYCOL HYDRMETER TO TESTER FOR PROPYLENE GLYCOL COOLANTS**

To order, please call **1-800-323-5440** or email [commercial@owi.com](mailto:commercial@owi.com)

For technical support, call 1-800-477-5847

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									
pH of Solution	D1287	9 min	9 min									
Reserve Alkalinity, mL	D1121	report	report									
Freezing Point, °F/°C	D1177, D3321, D6660	9/-13	2/-17									
Burst Point, °F/°C	-	-14/-26	-38/-39	40%-100% In Development								
Boiling Point*, °F/°C	D1120	216/102	217/103 min									
Chloride, ppm	D5827	<25	<25									
Odor	-	— Not Offensive —										
Color	-	— Orange —										

\* At atmospheric pressure

† At 50/50 dilution

PRODUCT AVAILABILITY	% VOL				PART NUMBER					
	30%	35%	40%	45%	50%	55%	60%	65%	70%	100%
Bulk	YFP030-OR	YFPW35-OR								
275 Gallon Tote	TOP038	TOPW38	40%-100% In Development							



Manufactured for Old World Industries, LLC.  
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