THERMAL CHARGE®

HEAT TRANSFER FLUID

PGHD

Inhibited Propylene Glycol-Based Heat Transfer Fluid

DESCRIPTION

Thermal Charge® 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**
- **Specifically formulated for use in systems that have a maximum temperature of 325˚F**
- **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
- **Lower acute oral toxicity*:** Reducing the risk of harm if accidentally ingested by mammals
- **Nonflammable:** Because the flash and fire points of Thermal Charge® 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

**as compared to ethylene glycol-based formulas.*

FREEZE/BURST PROTECTION CHART
Volume % Thermal Charge® PGHD Required

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%

***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.*

SUITABLE APPLICATIONS

- Boiler systems
- Fire sprinkler systems
- Hydronic heating or cooling systems
- Ice-making & skating rink systems
- Power generating systems
- Secondary loop refrigeration
- Snow melting systems
- Solar heating systems
- Thermal energy storage
- Trace line insulation & heating
- Water bath heaters

To order, please call **1-800-323-5440**
or email: **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%
		TYPICAL VALUES FOR THERMAL CHARGE® PGHD									
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 min.	D1287	9	9	9	9	9	9	9	9	9	9
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	<-100/-73	<-100/-73	<-100/-73	<-100/-73
Boiling Point*, °F/°C min.	D1120	216/102	217/103	219/104	220/104	222/106	223/106	225/107	227/108	229/109	310/154
Chloride, ppm	D5827	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Odor	-	Not Offensive									
Color	-	Fluorescent Yellow									

** At atmospheric pressure*
At 50/50 dilution

PRODUCT AVAILABILITY	PART NUMBER									
Bulk	TDP030	TDPW30	TDP040	TDPW40	TDPW50	TDP050	TDP060	TDPW60	TDP070	TDP000
275 Gallon Tote	TDP038	TDPW38	TDP048	TDPW48	TDPW58	TDP058	TDP068	TDPW68	TDP078	TDP008
55 Gallon Drum	TDP031	TDPW31	TDP041	TDPW41	TDPW51	TDP051	TDP061	TDPW61	TDP071	TDP001
5 Gallon Pail	-	-	-	-	TDPW55	-	-	-	-	TDP005

Old World Industries

Manufactured for Old World Industries, LLC., Northbrook, IL 60062 • (800) 289-7234
MADE IN THE USA OF DOMESTIC AND FOREIGN CONTENT

PEAK® peakhd.com

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