THERMAL CHARGE®
HEAT TRANSFER FLUID

EGHD
Inhibited Ethylene Glycol-Based Heat Transfer Fluid

DESCRIPTION

Thermal Charge® EGHD heat transfer fluid is a heavy duty formulation of ethylene 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. The fluid is dyed fluorescent orange to aid in leak detection. Solutions in water provide freeze protection to below -50°C (-60°F) and burst protection to below -73°C (-100°F). 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
- **Nonflammable:** Because the flash and fire points of Thermal Charge EGHD 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.

SUITABLE APPLICATIONS

- Boiler systems
- Hydronic heating or cooling systems
- Power generating systems
- Snow melting systems
- Solar heating systems
- Thermal energy storage
- Trace line insulation & heating
- Water bath heaters
- Natural gas pipeline heaters
- Cooling systems for electric generator engines
- Chemical plant HVAC system
- Power plant combustion air pretreaters
- Refineries
- Pulp & paper processing HVAC systems
- Cooling for gas turbine systems
- Ground source heat pumps
- Computer cooling systems

FREEZE/BURST PROTECTION CHART
Volume % Thermal Charge EGHD 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%

**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.*

To order, please call **1-800-323-5440** or email commercial@owi.com

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

PROPERTIES

PROPERTIES	ASTM TEST METHOD	% VOL 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	1.090	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	<-60/-51†
Burst Point, °F/°C	-	-14/-26	-20/-29	-60/-51	-60/-51	-60/-51	-60/-51	<-60/-51	<-60/-51	<-60/-51	<-60/-51
Boiling Point*, °F/°C	D1120	220/104	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	-	Orange									

TYPICAL VALUES FOR THERMAL CHARGE EGHD

* At atmospheric pressure
† At 50/50 dilution

PRODUCT AVAILABILITY

	PART NUMBER									
Bulk	THD030	THDW30	THD040	THDW40	THD050	THDW50	THD060	THDW60	THD070	THD000
275 Gallon Tote	THD038	THDW38	THD048	THDW48	THD058	THDW58	THD068	THDW68	THD078	THD008
55 Gallon Drum	THD031	THDW31	THD041	THDW41	THD051	THDW51	THD061	THDW61	THD071	THD001
5 Gallon Pail	-	-	-	-	THDW55	-	-	-	-	THD005

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