NEMCO LUBRICANTS & CHEMICALS

Product Data Sheet

Thermal Charge® EG and SR-1 EG Heat Transfer Fluid

Inhibited Ethylene Glycol Heat Transfer Fluid

DESCRIPTION

Thermal Charge® EG and SR-1 EG Heat Transfer Fluid is formulated with ethylene glycol (EG) and has a specially designed package of industrial corrosion inhibitors. It is widely used for HVAC heating applications and secondary cooling, for burst and freeze protection of pipes, and for various deicing, defrosting, and dehumidifying applications. The fluid provides freeze protection to -50°C and burst protection to -60°C.

Advantages

Thermal Charge® EG and SR-1 EG contains a specially formulated package of industrial inhibitors that help prevent corrosion:

- **Ethylene glycol based**
- **Corrosion protection for common metals used in HVAC**
- **Maximum heat transfer efficiency**
- **Process heating and cooling**
- **Florescent pink dye for leak detection**
- **Custom blends available**

Thermal Charge® EG and SR-1 EG provides the best protection for your HVAC system:

- **Protection against freeze damage**
- **Protection against corrosion**
- **Lower operating costs**
- **Improved operating efficiency over water alone**
- **Industrial heavy duty inhibitor package**
- **Highest quality ingredients**
- **Meets or exceeds industry leading product performance characteristics**
- **Available in bulk tankers, totes, drums, and pails**

Note - Always follow safe handling procedures when using ethylene glycol based products and take care to avoid contamination of the environment.

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Typical Characteristics – Thermal Charge® EG and SR-1 EG HTF

Test	Performance		Test Method
	Pure	50/50	
pH (50% water solution)	9 - 11		ASTM D1287
Appearance/colour	Clear / Florescent Pink		
Specific gravity (15.6°C / 60°F)	1.125-1.135	1.070	ASTM D1122
Freeze point °C (°F)	-18 (-0.4)	-37 (-35)	ASTM D1177
Boiling point °C (°F)	158 (317)	108 (226)	ASTM D1120
Foam Height (ml), 33% solution Break time (sec), 33% solution	50 max 3 max		ASTM D1881
Shelf life	5 years		
Total glycol (wt. %)	95.0 min	48 min	
Inhibitors and water (wt. %)	5 max	52 max	

Physical characteristics shown in the table are typical and may vary slightly.

Corrosion Test Result (ASTM D1384)

Material Tested	Maximum Weight Lost Allowed, mg	Test Result, mg
Copper	10	2
Standard solder	30	1
Brass	10	2
Steel	10	3
Cast iron	10	0
Cast aluminum	30	2

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