

## Inhibited Ethylene Glycol-based Heat Transfer Fluid

Thermal Guard XL is a specially formulated Organic Acid Technology (OAT) that delivers total cooling system protection. Thermal Guard XL is phosphate-free, silicate-free, nitrite-free and borate-free formula. It is formulated using a proprietary organic corrosion inhibitors to provide outstanding long-term wet sleeve liner cavitation and corrosion protection to all cooling system metals.

PROPERTIES	TYPICAL VALUES	ASTM TEST METHOD
Reserve Alkalinity	7 mL min.	D-1121
Specific Gravity @ 60°F	1.110-1.145	D-1122
Boiling Point, Reflux	300°F	D-1120
pH 50/50 Solution	7.5-11.0	D-1287

## SUITABLE APPLICATION

- Stationary Engines
- Provides exceptional long-term elastomer compatibility
- Designed to provide excellent heat transfer
- Provides effective long-term corrosion protection of all cooling system components

## GENERAL DESCRIPTION

Color	Red
Odor	Not Offensive
Pack/Unit	Bulk/Drums/Cases
Fluid Wt. per Gal.	9.35 - 9.45 lbs./gal.

## THERMAL GUARD XL FLUID % VOLUME REQUIRED

Temperature (F°)	(C°)	For Freeze Protection	For Burst Protection
20	-7	16%	11%
10	-12	25%	17%
0	-18	33%	22%
-10	-23	39%	26%
-20	-29	44%	30%
-30	-34	48%	30%
-40	-40	52%	30%
-50	-46	56%	30%
-60	-51	60%	30%

## CORROSION TEST RESULTS

Material Tested	ASTM D-1384 Maximum Weight Loss Allowed	Heat Transfer Fluid Results
Copper	10 mg	0 mg
Brass	10 mg	0 mg
Solder	30 mg	4 mg
Steel	10 mg	0 mg
Cast Iron	10 mg	0 mg
Aluminum	30 mg	0 mg

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