



*"Your Coolant Specialist"*

**ACT Heat Transfer Fluid Inhibited or Uninhibited**

**PRODUCT DESCRIPTION AND BENEFITS**

- Provides outstanding corrosion protection for copper, brass, solder, steel, cast iron, and aluminum
- Meets or exceeds **ASTM D1384**, the standard industry corrosion test for these metals

**WATER QUALITY REQUIREMENTS**

- Deionized, or Distilled water used to dilute is best to prevent premature breakdown
- City water, or Well water is also used but not recommended
- Water with no more than 400ppm hardness is recommended

PERFORMANCE SPECIFICATION Physical Property	Temp(°F) Solution	15% Glycol Solution	30%Glycol Solution	40%Glycol Solution	50%Glycol Solution	60%Glycol Solution
<b>Thermal Conductivity</b> (btu/(hr-ft3)(-°F/ft))	40	0..265	0..253	0..234	0..215	0.199
	180	0..307	0..291	0..267	0..241	0.220
	250	0..310	0..293	0..269	0..245	0.224
<b>Specific Heat</b> [BTU/(lb-°F)]	40	0.885	0.862	0.820	0.774	0.724
	180	0.933	0.915	0.883	0.849	0.816
	250	0.958	0.944	0.913	0.882	0.845
<b>Viscosity, Centipoise</b>	40	3.11	3.59	4.94	6.81	9.93
	180	0.59	0.66	1.82	0.96	1.09
	250	0.37	0.40	0.47	0.55	0.59
<b>Density, (lb/ft3)</b>	40	65.19	65.71	66.61	67.50	68.33
	180	62.90	63.31	64.10	64.83	65.55
	250	61.05	61.42	62.15	62.81	

# CHARACTERISTICS

## Composition (Concentrate)

Propylene/Ethylene Glycol 96.0 volume % max.  
Inhibitor Package & Deionized water 4.0 volume %min.

### pH

50% solution 9.8-10.8

30% solution 9.6-10.6

## Specific Gravity (60°F) Ethylene Glycol

96% solution 1.125 min

50% solution 1.070 min

## Specific Gravity (60°F) Propylene Glycol

96% solution 1.056 min

50% solution 1.046 min

## Reserve Alkalinity

96% solution 10.0 ml. min

50% solution none

## Flash Point Ethylene Glycol

96% solution 240°F min

50% solution none

## Flash Point Propylene Glycol

96% solution 220°F min

50% solution none

Vol. % Ethylene Glycol	Vol. % Finished Product	Freezing Point °F	Boiling Point °F @ 760 mm Hg
15	15.6	23.6	215
30	31.2	3.7	220
40	41.6	-2.7	223
50	52.1	-34.6	226
60	62.5	-60.0	228

Vol. % Propylene Glycol	Vol. % Finished Product	Freezing Point °F	Boiling Point °F @ 760 mm Hg
15	15.6	22.7	213
30	31.2	8.4	216
40	41.6	-6.7	218
50	52.1	-28.6	222
60	62.5	-59.9	226

# **Corrosion Protection**

- Protects steel, cast iron, copper brass, bronze and solder from 50°F-45°C to 150°F-65.5°C Protects aluminum up to 150°F/65.5°C

## **Recommended Maintenance Program**

- Analyze for inhibitors, phosphates and impurities every 6-12 months with emphasis on phosphate and Inhibitors. If abnormal, based on analysis, change out system

## **Product Longevity**

- Product should have a service life of 5-10 years or longer

## **Water Hardness**

- Water hardness compounds interact with phosphate, taking it out of solution and forming scale deposits. Phosphate concentration is reduced and precipitation formed

## **Advanced Coolant technologies**

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