



Prestone® EV™ RTU Thermal Management Fluid

Prestone EV-LC HOAT Electric Vehicle Specific Fluid

Description

Prestone low conductivity (LC) EV Thermal Management Fluids are formulated to meet the specific demands of battery electric and hybrid vehicles. Based in ethylene glycol, the inhibitor package is designed to protect the metallurgy makeup of the EV thermal system. With <math><100 \mu\text{S}/\text{cm}</math> electrical conductivity, Prestone EV fluids are designed for compatibility with electric vehicles and optimize the temperature of the battery, motor, and power electronics to maximize system health, performance, and safety.

Use

Prestone EV-LC HOAT is a pre-diluted, electric vehicle specific, thermal management fluid designed for use in indirect thermal management system. Prestone EV-LC HOAT silicated inhibitor package is specifically designed to protect EV thermal systems from corrosion. This EV specific fluid carries a low electrical conductivity that makes it suitable for use with high voltage traction batteries, motors, and power electronics. Prestone EV-LC HOAT is a ready-to-use fluid and should not be diluted or adjusted. Mixing Prestone EV-LC HOAT with other fluids may change the electrical conductivity and make unsuitable for

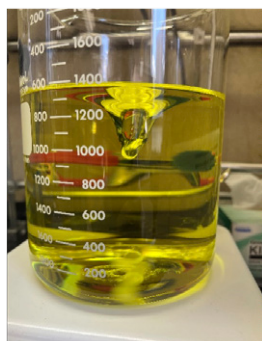
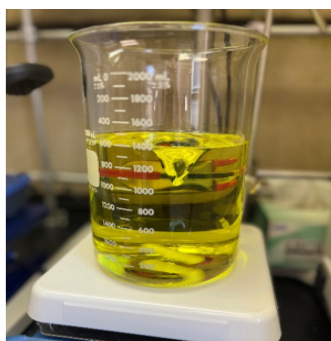
Storage and Handling

Store Prestone EV-LC HOAT in poly-lined or HDPE containers, at a maximum temperature of 30°C. Minimize exposure to direct sunlight. Disposal should be done in accordance with local laws and regulations.

Physical Properties

Prestone EV-LC HOAT is offered as a ready-to-use 50% solution with optimal freeze/boil protection and low electrical conductivity of 76 ($\mu\text{S}/\text{cm}$).

Prestone EV-LC HOAT	Result	Method
Appearance	Clear/Yellow	Visual
Electrical Conductivity @ 25 C ($\mu\text{S}/\text{cm}$)	76	ASTM D1125
pH	8.46	ASTM D5464
Freeze point ($^{\circ}\text{C}$)	-37	ASTM D1177
Reserve Alkalinity (4.5 endpoint)	1.89	ASTM D1121
Chloride (ppm)	2 Max	ASTM D5827
Phosphorus (ppm)	10 Max	ASTM D6130
Boron (ppm)	2 Max	ASTM D6130



Corrosion Protection

Prestone EV-LC HOAT is formulated to protect metals specific to electric vehicles systems including multiple grades of aluminum, steel, copper, and brass. Prestone EV-LC HOAT passes the GB29743.2 electric vehicle specification glassware corrosion test.

Metal	Prestone EV-LC HOAT loss/gain	GB29743.2 Limit
Copper	1.5	10 max
Brass	0.9	10 max
Steel	0.7	10 max
Cast Al	4.3	10 max
Al 3003	7.2	10 max
Al 4043	2.2	10 max
Al 6063	1.4	10 max



End of test metal specimen