



## **SURE-CRAFT HEAVY DUTY DIESEL Antifreeze/Coolant**

**SURE-CRAFT Heavy Duty Diesel Antifreeze/Coolant** is a superior fully formulated traditional engine coolant based on a proprietary formulation of corrosion inhibitors. The low silicate level of this aluminium compatible product allows it to be used in multi-vehicle fleets including automotive, light duty and heavy duty diesel applications such as on-road truck, off-road and farm applications. It is recommended for use where a heavy duty diesel coolant is required. This includes, but is not limited to, Caterpillar, Cummins, Detroit Diesel, Ford, GM and Volvo Mack.

This product is phosphate and amine free and does not require an initial charge of supplemental coolant additives (SCA) upon initial fill. It is specially formulated to protect heavy duty diesel wet sleeve liners and is compatible with coolant filters, heavy duty diesel SCAs, hard water and other traditional fully formulated corrosion inhibited engine coolants. Heavy Duty Antifreeze/Coolant provides exceptional summer cooling and excellent protection against freezing in winter while protecting all common coolant system metals.

### **SURE-CRAFT Heavy Duty Diesel Antifreeze/Coolant offers the following advantages:**

- Phosphate free and low silicate
- Fully formulated; DOES NOT require initial charge of SCA
- Protects liners against pitting and corrosion
- For use in multi-vehicle fleets including automotive, light duty and heavy duty diesel applications such as on-road truck, off-road and farm applications

### **SURE-CRAFT Heavy Duty Diesel Antifreeze/Coolant meets the performance requirements of the following engine antifreeze/coolant specifications:**

ASTM D3306, D4985, D6210  
GM 1825M, 1899M

Detroit Diesel 7SE298, 93K217  
TMC RP 329B

Coolant concentrate must be diluted with water prior to use. SURE-CRAFT Heavy Duty Diesel Antifreeze/Coolant should not be used in concentrated form. A 50% dilution is generally recommended for the best balance of protection against freezing, corrosion and summer boil over. For increased freeze protection in extremely cold areas, a 60% volume concentration can be used. Concentrations of greater than 70% by volume are not recommended. High quality soft, de-ionized or distilled water should always be used to dilute coolant concentrate. For added value and convenience, this product is available in a ready to use format, pre-diluted to 50% volume using de-ionized water.



## SURE-CRAFT HEAVY DUTY DIESEL Antifreeze/Coolant

### Typical Product Properties

Characteristic	Performance	Test Method
pH <sup>a</sup>	10 - 11	ASTM D1287
Specific gravity <sup>b</sup>	1.110 - 1.140	ASTM D1122
Freeze point <sup>a</sup> , °C/°F	-37/-34	ASTM D1177
Foam volume, ml	150 max.	ASTM D1881
Foam break time, second	5 max.	ASTM D1881
Reserve Alkalinity, ml	10.0 min.	ASTM D1121
Chloride, ppm	25 max.	ASTM D3634
Silicon, ppm	250 max.	ASTM D6130
Colour	Purple	
Glycol Content, % wgt.	95 min.	
Inhibitors & Water Content, % wgt.	5 max.	

<sup>a</sup> 50% volume aqueous solution

<sup>b</sup> Measured at 15.6°C/60°F

### Typical Coolant Performance Testing Results

Metal Type	ASTM D 1384 GLASSWARE CORROSION		ASTM D 2570 SIMULATED SERVICE	
	Test Results <sup>1</sup>	Max. Spec.	Test Results <sup>1</sup>	Max. Spec.
Copper	1	10	-1	20
Solder	4	30	14	60
Brass	1	10	2	20
Steel	1	10	0	20
Cast Iron	-5	10	-6	20
Aluminum	-2	30	1	60

<sup>1</sup> Weight loss, except negative sign which indicate weight gain, per coupon in milligrams. Values are for coolant made from virgin ethylene glycol.

	Test Results <sup>1</sup>	Specification
<b>ASTM D4340 Heat Rejecting Aluminum Corrosion (mg/cm<sup>2</sup>/week)</b>	0.2	1.0 maximum
<b>ASTM D2809 Aluminum Water Pump Cavitation- Erosion Corrosion Rating</b>	8	8 minimum

<sup>1</sup> Weight loss per coupon in milligrams (average for 2 tests). Values are for coolant made from virgin ethylene glycol.

**NOTICE:** This product is shipped in compliance with applicable laws and regulations regarding classification, packaging, shipping and handling. The performance and physical property data described for this product are typical results not sale specifications, except where maximum or minimum is indicated. Refer to Material Safety Data Sheets for further information.

Because use conditions and applicable laws may differ from one location to another and may change with time, the customer is responsible for determining whether product and the information in this document are appropriate for their use and for ensuring that their workplace and disposal practices are in compliance with applicable laws and other governmental enactments. The manufacturer's warranty is limited to the claims of product meeting stated performance specifications. It is the responsibility of the end-user to determine product suitability as recommended in the owner's manual and to follow engine manufacturer's instructions.