



SURE-CRAFT HEAVY DUTY DIESEL 60/40 Premixed Antifreeze/Coolant

SURE-CRAFT Heavy Duty Diesel 60/40 Premixed Antifreeze/Coolant is a superior, fully formulated, low silicate ethylene glycol based product that DOES NOT require an initial charge of SCA upon initial fill. The product is aluminum compatible and protects against rust, corrosion and pitting caused by cavitation for all common coolant system metals. It provides optimum protection against radiator freeze-up down to -52°C and boil-over to 132°C (with a 100 kilopascal {15 psi} radiator cap in good condition.) Recommended for use in older domestic and foreign cars, light duty trucks and any heavy duty diesel application including truck, off road, marine and farm where the use of low silicate and borate corrosion inhibitors are allowed. This includes, but is not limited to, Caterpillar, Cummins, Detroit Diesel, Ford, GM and Volvo Mack.

SURE-CRAFT Heavy Duty Diesel 60/40 Premixed Antifreeze/Coolant offers the following advantages:

- Fully formulated; Does not require initial charge of SCA
- Prevents pitting of wet sleeve liners caused by cavitation
- Low silicate and phosphate free
- Recommended for automotive and heavy duty applications, including truck, off-road, marine and farm engines

SURE-CRAFT Heavy Duty Diesel 60/40 Premixed 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

Typical Product Properties

| Characteristic | Performance | Test Method |
|------------------------------------|---------------|-------------|
| pH | 10 - 11 | ASTM D1287 |
| Specific gravity ^b | 1.083 - 1.090 | ASTM D1122 |
| Freeze point, °C/°F | -52 / -61.6 | ASTM D1177 |
| Foam volume, ml | 150 max. | ASTM D1881 |
| Foam break time, second | 5 max. | ASTM D1881 |
| Reserve Alkalinity, ml | 6.0 min. | ASTM D1121 |
| Chloride, ppm | 25 max. | ASTM D3634 |
| Silicon, ppm | 134 max. | ASTM D6130 |
| Colour | Purple | |
| Glycol Content, % wgt. | 58 min. | |
| Inhibitors & Water Content, % wgt. | 42 max. | |

^b Measured at 15.6°C/60°F



**SURE-CRAFT
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Typical Coolant Performance Testing Results

| Metal Type | ASTM D 1384 GLASSWARE CORROSION | | ASTM D 2570 SIMULATED SERVICE | |
|------------|------------------------------------|------------|----------------------------------|------------|
| | Test Results ¹ | Max. Spec. | Test Results ¹ | 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 |

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

| | Test Results ¹ | Specification |
|----------------------------------------------------------------------------------|---------------------------|---------------|
| ASTM D4340 Heat Rejecting Aluminum Corrosion (mg/cm²/week) | 0.2 | 1.0 maximum |
| ASTM D2809 Aluminum Water Pump Cavitation- Erosion Corrosion Rating | 8 | 8 minimum |

¹ 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.