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## Technical Data Sheet

Allied Oil Heavy-Duty ELC coolant/ antifreeze is an ethylene glycol-based coolant for heavy-duty diesel, gasoline and natural gas power engines. Allied Heavy-Duty ELC contains a unique extended life carboxylate inhibitor system and nitrate/ molybdate as secondary inhibitors. This product requires no traditional ELC Extender and supplemental coolant additive (SCA) additions and contains no silicate, borate, nitrate or phosphate. Allied Heavy-Duty ELC meets all requirements of the ASTM D3306, D4985, D6210.

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### Performance, Features and Benefits

- Minimum coolant life of 500,000 miles without the need of ELC Extender
- No regular Supplemental Coolant Additives (SCA's) required
- Improved water pump seal life due to low dissolved solid levels
- Excellent pitting protection for wet sleeve cylinder liners
- Excellent, long-term corrosion protection of all cooling system metals including aluminum, brass, cast iron, steel, solder, and copper
- Excellent heat transfer
- Reduced hard water scale
- Reduced overall coolant and cooling component maintenance
- No silicate dropout or gel formation during use or storage
- Compatible with conventional coolants. Dilution/ mixing with non-equivalent coolants will reduce or eliminate extended life properties. **DO NOT DILUTE THIS PRODUCT BY MORE THAN 15% WITH CONVENTIONAL COOLANTS or water.**
- Can be used for top-up of cooling systems containing conventional coolants. When Allied Heavy-Duty ELC is used as top-up for conventional coolants SCA's must still be added.

### Main Applications

- Allied Heavy-Duty ELC Extended Life Coolant/Anti-Freeze has been proven to provide complete protection of all cooling system components.
- The inhibitors in Allied Heavy-Duty ELC, due to their special chemistry, are designed to go 500,000 miles without the need of ELC Extender. After 500,000 miles it is recommended that the coolant be tested for continued use.
- Allied Heavy-Duty ELC inhibitors, while providing complete cooling system component protection, also help reduce water pump failures, hard water scale deposits, silicate "green goo" and improve heat transfer.
- Maintenance is simple with Allied Heavy-Duty ELC. To use this product just follow your OEM's instructions on how to drain, flush and refill your cooling system. Top up only with Allied Heavy-Duty ELC 50/50. At every PM, or at least twice per year, check the color and freeze point of your coolant. If coolant is red, has no deposits and has a freeze point of between -15°F and -60°F then the coolant is considered in suitable condition for further use. See index for freeze point adjustment chart. Please note that dilution of Allied Heavy-Duty ELC by more than 15% with non-equivalent coolants or water is not recommended. Over-dilution will require initiating SCA use or draining and refilling the cooling system with Allied Heavy-Duty ELC. If contamination with non-equivalent/ non-extended life coolants is suspected, it is recommended the ELC Contamination Test Strip Kit be used to confirm satisfactory carboxylate inhibitor content.

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### Specifications, Approvals & Recommendations

Allied Heavy-Duty ELC Extended Life Coolant Anti-freeze meets or exceeds ASTM D3306, D4985, D6210

### Typical Physical Characteristics

Properties	Method	Heavy Duty Coolant Concentrate
Color		Red
Specific Gravity @15.6 Degrees C	ASTM D1122	1.130
Reserve Alkalinity ml 0.1N HCL	ASTM D1121	6
Freezing Point °C	ASTM D1177	Max Diluted 50/50- 36.7

These characteristics are typical of current production.

### Health and Safety

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water. Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from your local representative.

### Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil, or water.

### Protect the Environment

- Advice  
 Advice on applications not covered here may be obtained from your Allied Oil & Supply, Inc. representative.