

KLONDIKE Red Heavy Duty NOAT ELC Antifreeze/Coolant



PRODUCT DESCRIPTION

KLONDIKE Red Heavy Duty NOAT ELC Antifreeze/Coolant is an advanced, virgin ethylene glycol based, multi-purpose, extended life coolant primarily designed for use in heavy duty diesel engines demanding extended life performance.

APPLICATIONS

KLONDIKE Red Heavy Duty NOAT ELC Antifreeze/Coolant meets ASTM D6210, ASTM D3306, and TMC RP329 for fully formulated antifreeze/coolants in heavy duty service.

Typical applications include:

- Heavy duty engines running on all types of fuel where OEM recommends an extended life coolant containing nitrites.
- Mixed fleets containing on and off-road equipment.
- Stationary engines applications requiring minimum maintenance and maximum reliability.
- Marine applications where freeze protection and nitrite containing chemistry is recommended.



FEATURES AND BENEFITS

KLONDIKE Red Heavy Duty NOAT ELC Antifreeze/Coolant is a virgin ethylene glycol based product blended with advanced nitrated OAT (organic acid technology) high performance additive package. This premium coolant is formulated with nitrite and molybdate combination while being free of phosphate, borate, silicate, amines, and 2-EH chemistry for maximum protection against wet sleeve liner cavitation. Proven performance technology provides antifoam properties as well as protection against rust and corrosion for all cooling system materials. Adaptive NOAT inhibitor technology ensures maximum service life and full compatibility with other NOAT based extended life coolants with no adverse effect making this formulation compatible for use in a vast selection of heavy-duty engine applications as a top-up or complete replacement fluid. Red Heavy Duty NOAT ELC is formulated with 2400 ppm minimum nitrite content. This additive content ensures this product meets ASTM D6210 for heavy duty antifreeze/coolant and will effectively control wet sleeve liner pitting, cavitation, and corrosion in heavy duty engines. Formula also includes ingredients to disperse minor oil leakage, prevent fouling, and control hot surface scaling. Cooling systems filled and maintained exclusively with Heavy Duty NOAT ELC may exceed 1,600,000 km's/8 years of on-road service, 20,000 hours/8 years of off-road service and/or stationary engine service when a formal antifreeze/coolant monitoring and maintenance program is followed.

Mixes readily with clean tap water.

KLONDIKE Red Heavy Duty NOAT ELC Antifreeze/Coolant is available in concentrate and 50/50 prediluted versions for convenience and versatility.

KLONDIKE Red Heavy Duty NOAT ELC Antifreeze/Coolant delivers value through the following benefits:

- **Wide application range** – maximum protection across a vast range of heavy duty applications.
- **Long service life** – 1,600,000 km or 20,000 hours of premium protection.
- **All-metal protection** – provides excellent protection to all cooling system components including aluminum. Maximum water pump and fluid seal life.
- **Compatibility** – compatible with most major brands of heavy duty extended life coolant technology.



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SPECIFICATIONS AND APPROVALS

KLONDIKE Red Heavy Duty NOAT ELC Antifreeze/Coolant meets or exceeds the requirements of (but is not limited to) the following;

- **ASTM D3306**
- **ASTM D6210**
- **TMC RP 329**
- **CAT EC-1**
- **Cummins CES 14439, CES 14603**
- **Daimler DBL 7700**
- **John Deere JDM H24A**
- **MWM Deutz TR0199-99-2091**
- **Navistar CEMS B-1 Type III**
- **PACCAR CS0185**
- **Mack 014 GS17009, 014 GS17004**
- **Volvo Heavy Truck 184.01**



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TYPICAL TECHNICAL PROPERTIES

PROPERTY	TYPICAL RESULTS	HEAVY DUTY NOAT ELC
Specific gravity	ASTM D1122	1.110 – 1.125
Nitrite	ASTM D 5827	2400 ppm, min
Chloride	ASTM D3634	25 ppm, max
Boiling Point, undiluted	ASTM D1177	162°C/325°F min.
Boiling Point, 50% V/V	ASTM D1120	107°C/226°F min.
Freeze Point, 50% V/V	ASTM D1177	-36.7°C/-34°F min.
pH, 50% V/V	ASTM D1287	8.55
Foaming	ASTM D1881	150 mL vol., max. 5 sec. break, max.
Effect on non-metals		No adverse effect
Effect on vehicle finish		No adverse effect
Color		Red

% ANTIFREEZE	FREEZING POINT		BOILING POINT*	
	°F	°C	°F	°C
40%	-9	-24.4	220	104
50%	-34	-36.7	264.9	129.4
60%	-62	-52.2	270.0	132.2
70%	-84	-64.4	275.0	135.0

*Boiling point shown using conventional 15 psi radiator cap.

All stated physical properties are typical of standard production and may vary.

Technical Notes:

- KLONDIKE Red Heavy Duty NOAT ELC Antifreeze/Coolant is an advanced, extended life antifreeze/coolant. Dilution or mixture with other coolant types may affect performance characteristics and expected service life.
- This product contains bittering agent. Bittering agent is a flavor aversive that may help reduce the accidental ingestion of this product
- Antifreeze/coolant concentrate must be mixed with clean water for maximum performance.
- KLONDIKE recommends 50/50 solution of antifreeze/coolant and clean water to meet stated performance characteristics. For maximum protection against freezing in extremely cold areas, a 60-70 percent solution may be used. Concentrations greater than 70 percent are not recommended.
- This product contains nitrites. Always follow OEM antifreeze/coolant recommendations.
- NOTE: Used antifreeze coolant in most jurisdictions is not hazardous unless it contains more than 5 ppm of lead. Never dispose of by dumping into a storm sewer or onto the ground. Instead, contact your local municipality for instructions on where and how to properly dispose of this coolant and protect our environment.



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HEALTH AND SAFETY

This product is not expected to have adverse health implications when used for its intended application. For detailed information on safe handling of this product, refer to its Material Safety Data Sheet (MSDS). To obtain an MSDS on this or any other KLONDIKE product, please visit www.klondikelubricants.com or call 1-877-293-4691. When disposing of used product, be responsible to the environment.

PRODUCT NUMBERS

Red Heavy Duty NOAT ELC Antifreeze – Concentrate	Jug: 3.78 L / 1 GAL	KL-CH9250
	Drum: 208 L / 55 GAL	KL-CH9290
	Tote: 1040 L / 275 GAL	KL-CH9295
Red Heavy Duty NOAT ELC Antifreeze – 50/50 Ready to Use	Jug: 3.78 L / 1 GAL	KL-CH9350
	Drum: 208 L / 55 GAL	KL-CH9390
	Tote: 1040 L / 275 GAL	KL-CH9395

BRAVING THE FORCE OF MOVEMENT

KLONDIKE stands for robust, reliable, high quality products tailored to suit the requirements of the on- and off-road heavy duty, automotive and industrial markets. Our solutions span from trend-setting retail lubricants through small-batch custom formulations to large bulk orders ready for immediate delivery.

The extensive KLONDIKE product range includes premium oils, lubricants, greases, chemicals and specialty fluids formulated with virgin base oils and protective inhibitors. Designed to handle the most extreme climates and operating conditions, the KLONDIKE products protect and extend the life of your equipment, optimize performance and improve productivity while meeting and exceeding industry standards and specifications.

KLONDIKE Lubricants Corporation

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