

KLONDIKE Gold All Engines NF OAT ELC Antifreeze/Coolant



PRODUCT DESCRIPTION

KLONDIKE Gold All Engines NF OAT ELC Antifreeze/Coolant is highly advanced, virgin ethylene glycol based; multi-purpose, extended life coolant designed for use in ALL heavy and light duty engine applications regardless of year, make, model, or original antifreeze color.

This nitrite free, OAT (organic acid technology) formulation is also phosphate, silicate, borate, and amine free, offers outstanding service life, and designed for use in all engine types.

APPLICATIONS

KLONDIKE Gold All Engines NF OAT ELC Antifreeze/Coolant meets the requirements specified by ASTM for light duty, basic heavy duty, and fully formulated antifreeze/coolant applications.

Typical applications include:

- Heavy duty engines where OEM requires nitrite-free extended life coolant.
- Mixed fleets of heavy and light duty vehicles and equipment, operating on all fuel types, where one coolant is preferred that meets all OEM performance requirements
- Stationary engines applications requiring minimum maintenance and maximum reliability.



FEATURES AND BENEFITS

KLONDIKE Gold All Engines NF OAT ELC with proven performance chemistry provides antifoam properties as well as outstanding rust and corrosion protection for all cooling system materials such as aluminum, brass, copper, solder, steel and cast iron. Adaptive, robust OAT inhibitor technology ensures maximum service life and full compatibility with other OAT based coolant technologies with no adverse effect making this formulation compatible for use in a vast range of engine applications as a top-up or complete replacement fluid. KLONDIKE Gold All Engines NF OAT ELC Antifreeze/Coolant meets all requirements of ASTM D6210 for heavy duty antifreeze/coolant ensuring maximum protection in heavy duty diesel engines and does not require any additives in service.

Cooling systems filled and maintained exclusively with KLONDIKE Gold All Engines NF OAT ELC Antifreeze/Coolant may exceed 1,600,000 km's/8 years of on-road service and 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.

Adaptive colour technology allows KLONDIKE Gold All Engines NF OAT ELC to be added to other colour coolants without adverse effect on total system fluid colour.

KLONDIKE Gold All Engines NF OAT ELC Antifreeze/Coolant is available in concentrate and 50/50 prediluted versions for convenience and versatility.

KLONDIKE Gold All Engines NF OAT ELC Antifreeze/Coolant delivers value through the following benefits:

- **Widest application range** – modern inhibitor technology ensures maximum protection across a vast range of heavy and light duty applications.
- **Long service life** – 1,600,000 km's or 20,000 hours of premium protection when correct maintenance practices are followed.
- **Minimum maintenance** – eliminates the need for coolant additives, testing, and human error variability to perform these tasks virtually eliminating those costs as compared with other coolant technologies.
- **Compatibility** – compatible with most major brands of OAT based extended life coolants. Pale Gold colour has no adverse effect when mixed with other coolant colours



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SPECIFICATIONS AND APPROVALS

KLONDIKE Gold All Engines OAT ELC Antifreeze/Coolant meets or exceeds (but is not limited to) the following specifications:

- **ASTM** D3306, ASTM D6210
- **TMC** RP329
- **BS** 6580:2010
- **CAT** EC-1
- **CNH** MAT 3624
- **Cummins** CES 14603, 14439, 14636
- **Chrysler** MS-12106
- **Daimler** DBL 7700.30
- **Detroit Diesel** 93K217, 7SE 298
- **Ford** ESE-M97B18-A/C, ESE-M97B44-D/E,
- **John Deere** JDM H24C, JDS-G135
- **GE Jenbacher** 1000-201
- **GM** 6277M (DEXCOOL®)
- **JIS** K2234
- **Komatsu** KES 07 892
- **MAN** 324 Type SNF
- **MTU** MTL 5048
- **MWM** Deutz TR0199-99-2091
- **Mercedes Benz** 325.3, 326.3
- **Mack** 014 GS17009, 014 GS17004
- **Volvo** VCS



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TYPICAL TECHNICAL PROPERTIES

PROPERTY	TYPICAL RESULTS	ALL ENGINES ELC
Specific gravity	ASTM D1122	1.110 – 1.125
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	8.6
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		Pale Gold

% 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 Gold All Engines OAT ELC is an advanced, extended life antifreeze/coolant. Dilution with other coolant chemistry 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.
- DEX-COOL® and GM are registered trademarks of General Motors Corporation.
- 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

Gold All Engines NF OAT ELC Antifreeze – Concentrate	Jug: 3.78 L / 1 GAL	KL-CH9450
	Drum: 208 L / 55 GAL	KL-CH9490
	Tote: 1040 L / 275 GAL	KL-CH9495
Gold All Engines NF OAT ELC Antifreeze – 50/50 Ready to Use	Jug: 3.78 L / 1 GAL	KL-CH9550
	Drum: 208 L / 55 GAL	KL-CH9590
	Tote: 1040 L / 275 GAL	KL-CH9595

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

Toll-free 1-877-293-4691

info@klondikelubricants.com
www.klondikelubricants.com

