

KLONDIKE Conventional Antifreeze/Coolant



PRODUCT DESCRIPTION

KLONDIKE Conventional Antifreeze/Coolant is a low silicate, ethylene glycol based multi-purpose coolant, designed for use in automotive, light duty engines as well as heavy-duty diesel engines where low silicate formula with the addition of SCA's is preferred.

APPLICATIONS

KLONDIKE Conventional Antifreeze/Coolant meets the requirements specified by ASTM D3306 for automotive/light duty applications as well as ASTM D4985 for basic heavy duty applications.

Typical applications include:

- Automobiles requiring a non-extended life, low silicate coolant.
- Heavy duty cooling systems requiring a non-extended life, low silicate coolant that is compatible with supplemental coolant additives.



FEATURES AND BENEFITS

KLONDIKE Conventional Antifreeze/Coolant is a virgin ethylene glycol based product blended with a high performance additive package. This low silicate coolant is phosphate, nitrite, and amine free and is designed for use in all types of engines, particularly those containing aluminum alloys. KLONDIKE proven performance technology provides antifoam properties, and protection against rust and corrosion for aluminum, brass, copper, solder, steel and cast iron. KLONDIKE's proprietary corrosion inhibitor system ensures year-round protection against freeze-ups, boil-overs, and engine cooling system corrosion while protecting aluminum better than silicate formulas without the problems of silica gel formation or silicate cloudiness. This formula also includes ingredients to disperse minor oil leakage, prevent fouling, control hot surface scaling, and will not damage auto finishes or rubber parts.

Mixes readily with clean tap water and is compatible with cooling system filters and supplemental coolant additives.

KLONDIKE Conventional Antifreeze/Coolant is available in concentrate and 50/50 prediluted versions for convenience and versatility. Other custom blends are available upon request.

KLONDIKE Conventional Antifreeze/Coolant delivers value through the following benefits:

- **Wide application range** — used in a wide variety of automotive vehicles where low silicate product is required. It can also be used in heavy duty engines when SCA's are added where recommended by OEM. Also suitable for use in industrial internal combustion engines where an antifreeze/coolant is required to provide protection against freezing, boil over, and corrosion.
- **Service life** — 2 years or 80,000 km (50,000 miles) in automotive service when correct maintenance practices are followed.
- **Protection** — provides excellent protection to automotive cooling system components including aluminum.
- **Compatibility** — compatible with most major brands of coolant technology; compatible with heavy duty coolant additive filters and liquids.



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SPECIFICATIONS AND APPROVALS

KLONDIKE Conventional Antifreeze/Coolant is recommended for use where the following specifications are listed:

AUTOMOTIVE

- **ASTM D3306**
- **ASTM D4340**
- **SAE J1034**
- **SAE J1931**
- **Ford ESE-M97B44-A**
- **GM 1825M** (Performance spec. for GM 6043M)
- **Chrysler MS-7170**
- **VW TL774C (G11)**
- **Toyota**

HEAVY DUTY

- **ASTM D4985** for heavy duty diesel service
- **SAE J1941**
- **TMC of ATA RP-302A-1, RP-302B**
- **Caterpillar**
- **Cummins 90T8-4**
- **GM 1899M**
- **Volvo/GM Heavy Truck**
- **John Deere H24B1, H24C1**
- **Mack Truck**
- **Navistar B1 (type I)**

Meets the phosphate-free requirements of European OEM's and the silicate-free requirements of Japanese OEM's



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TYPICAL TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	CONVENTIONAL
Specific gravity	D1122	1.110 – 1.145
Glycol %		95.0 min
Silicates		< 250 ppm
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.
Ash content, mass %	ASTM D1119	2.5 max
pH, 50% V/V	ASTM D1287	9.5 – 10.5
Reserve alkalinity	ASTM D1121	10 min
Water, mass %	ASTM D1123	2.8 max
Foaming	ASTM D1881	150 ml vol., max.
5 sec. break, max.		No adverse effect
Effect on non-metals		No adverse effect
Effect on vehicle finish		No adverse effect
Color		Green

*Reserve alkalinity (RA) is a term used to indicate the amount of alkaline inhibitors present in an antifreeze formulation. It is incorrect to relate a high RA number with high-quality antifreeze. Many antifreeze formulations contain new inhibitor technology which gives added protection to certain metals but does not raise the RA number.

% 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.				

Technical Notes:

- KLONDIKE Conventional Antifreeze is not an extended life coolant and may require the use of Supplemental Coolant Additives (SCA's) in heavy duty and industrial applications.
- 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.
- 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.

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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