



LD Conventional Antifreeze Concentrate

Technical Data Sheet

Industry Standards

This product is formulated to meet or exceed the following industry specifications:

- ASTM D3306 (automotive/light-duty)
- ASTM D4985 (heavy-duty diesel/low silicate)
- TMC of ATA RP 329/338*

**The Maintenance Council of the American Trucking Assoc. Antifreeze also meets the non-phosphate requirements of European OEM's and non-silicate requirements of Japanese OEM's.*

Features

Our LD Conventional Antifreeze Concentrate is used for automotive, light duty and basic heavy-duty service. It contains a non-silicate, phosphate free, inhibitor package that provides excellent all metal protection, and yet it meets the heavy-duty requirements of the trucking industry (less than 0.0125% wt. silicon). A proprietary silicate-free corrosion inhibition system protects aluminum better than silicate without the problems of silica gel formation or silicate cloudiness. This antifreeze coolant is formulated to meet ASTM D3306 for automotive and light duty applications and ASTM D4985 for heavy duty applications, with the addition of a supplemental coolant additive (SCA). In automobiles, light trucks, SUV's, vans and other light duty applications, this product can provide a service life in excess of 5 years or 150,000 miles.

In addition, LD Conventional Antifreeze Concentrate contains an advanced inhibitor system that provides a wide range of inhibitors which protect all cooling system metals. Together with the glycol base, these inhibitors combined with other additives, give year-round protection against freeze-ups, boil-overs and engine cooling system corrosion. This antifreeze/coolant also includes ingredients to disperse minor oil leakage, prevent fouling, control hot surface scaling and it will not damage auto finishes or rubber parts.

Product Specifications

PARAMETER	LIMIT
Appearance	clear, green liquid *
Ethylene glycol (WT%)	95.0 min
pH (50% v/v)	9.5 – 10.8
Reserve alkalinity (ml)	10.0 min

*Standard color. Custom color available upon request.

Typical Properties*

PROPERTY	VALUE
Corrosion inhibitors (WT%)	2.2 min
Water (WT%)	2.8 max
Boiling point (°F, 50% v/v, 15 psi)	265 min **
Freezing point (°F, 50% v/v, 15 psi)	-34
Specific gravity (60/60°F)	1.110 – 1.145
Density (PPG, 60°F)	9.4 min
Flash point (°F)	250
Chloride (ppm)	25 max
Ash content (WT%)	2.5 max
Silicates (WT%)	< 250 ppm
Foam	150 ml max; 5 s break max
Effect on engine or vehicle finish	no effect
Effect on nonmetals	no adverse effect

*These values should not be construed as sales specifications.

**Boiling point shown using conventional 15 psig radiator cap.

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Berryman Chemical Inc. does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.