



USA RESOURCES
technology

ResTech Auto Serv

Light-Duty Conventional Antifreeze/Coolant Concentrate

Our antifreeze/coolant 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 formulation meets the requirements specified by ASTM D4985 for heavy duty applications, with the addition of a supplemental coolant additive (SCA), and ASTM D3306 for automotive and light duty applications. 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, this antifreeze/coolant 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.

Industry Standards

This ready-to-use conventional antifreeze/coolant meets the following industry specifications:

- ASTM D3306
(automotive/light-duty)
- ASTM D4985
(heavy-duty diesel/low silicate
With the addition of an SCA)
- TMC of ATA RP 302A*

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

PHYSICAL PROPERTIES		
Antifreeze Glycols	mass %	95.0 min.
Corrosion Inhibitors	mass %	2.2 min.
Water	mass %	2.8 max.
Flash Point	°F	250°F
Weight per gallon at 60° F-16° C	lbs.	9.35-9.45 min.
Silicates	mass %	< 250 ppm

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% Antifreeze	Freezing Point		Boiling Point*	
	°F	°C	°F	°C
40%	-9 max	-22 max	220 min	104 min
50%	-34 max	-36 max	226 min	107 min
70%	-84 max	-64 max	240 min	115 min

**Boiling point shown at atmospheric pressure. Add 40°F for 15 psi radiator cap.*

Characteristic	Specification	Company Typical	ASTM Method
Chloride	25 ppm, max.	2	D3634
Specific gravity, 60/60°F	1.110-1.145	1.120	D1122
Boiling Point, undiluted	325°F/162°C min.	330	D1177
Boiling Point, 50% V/V	226°F/107°C min.	229	D1120
Freezing Point, 50% V/V	-34°F/-36°C min.	-34	D1177
Effect on engine or vehicle finish	No effect	Pass	--
Ash content, mass %	2.5 max.	2.0	D1119
pH, 50% V/V	9.5-10.8	10.5	D1287
Reserve alkalinity*	None specified	10 min.	D1121
Water mass %	None specified	2.0 max.	D1123
Color	Distinctive	Green	--
Effect on nonmetals	No adverse effect	Pass	--
Storage stability	None specified	> 1 year	--
Foaming	150 ml vol., max. 5 sec. break, max.	Pass	D1881

**Reserve alkalinity (RA) is a value agreed between the customer and supplier. The RA listed above is the typical for the additive package being used.*

NOTE: Used antifreeze coolant in most states is not hazardous unless it contains more than 5 ppm of lead. We recommend that spent coolant never be disposed of by dumping into a storm sewer or onto the ground. Instead, contact your local municipality for instructions on where to and how to properly dispose of this coolant and protect our environment.