



USA RESOURCES
t e c h n o l o g y

ResTech Diesel Guard

Heavy-Duty, Precharged Antifreeze/Coolant Concentrate

Our heavy-duty antifreeze/coolant concentrate is a non-silicate, non-phosphate formulation that contains the initial charge of supplemental coolant additive (SCA) and a minimum of 2400 ppm Nitrite (as NO₂). It provides outstanding protection from cavitation erosion/corrosion in water pumps and wet sleeve cylinder liners, as well as excellent overall corrosion protection.

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.

In automobiles, light trucks, SUV's, vans and other light duty applications, this product will provide a service life in excess of 5 years or 150,000 miles. In heavy-duty diesel applications (in which a formal monitoring and maintenance program is in place) it can provide a service life of 300,000 miles with the addition of our heavy-duty supplemental coolant additive as needed.

Industry Standards

This heavy-duty antifreeze/coolant meets the following industry specifications:

- ASTM D3306
(automotive/light-duty)
- ASTM D4985
(heavy-duty diesel/low silicate)
- ASTM D6210/11
(fully formulated and precharged)
- TMC of ATA RP 329/330*
- TMC of ATA RP302A

**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*

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	1.125	D1122
Nitrite	2400 ppm min.	2800	D5827
Boiling Point, undiluted	325°F/162°C min.	330	D1120
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	Fuscia	--
Effect on nonmetals	No adverse effect	Pass	--
Storage stability	None specified	> 1 year	--
Foaming	150 mi 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.