



USA RESOURCES
technology

ResTech Universal LDXL

Light-Duty OAT Extended Life Antifreeze/Coolant Concentrate

Our concentrated extended life antifreeze/coolant contains a mixture of proprietary organic acid technology (OAT) inhibitor system that is significantly more durable than conventional additive systems for automotive, light duty use, resulting in a 5-year, 150,000 mile service life. The antifreeze is suitable for use in foreign and domestic passenger cars, vans, SUVs and light trucks requiring extended life antifreeze.

This extended life antifreeze/coolant contains no borate, nitrate, nitrite, phosphates, silicates, or amines. It is compatible with all organic acid extended life coolants and conventional coolants. Additionally, this antifreeze/coolant contains inhibitors that 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 and can be incidentally mixed with most major brands of OAT, HOAT and conventional antifreezes without precipitation problems.

Industry Standards

This extended-life antifreeze/coolant concentrate meets the following industry specifications:

- ASTM D3306
(automotive/light-duty)
- TMC of ATA RP 302A-1*

**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

% 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.*

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Characteristic	Specification	Company Typical	ASTM Method
Chloride	25 ppm, max.	2	D3634
Specific gravity, 60/60°F	1.110-1.145	1.118	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	8.0-9.5	8.8	D1287
Reserve alkalinity*	None specified	6 min.	D1121
Water mass %	None specified	2.0 max.	D1123
Color	Distinctive	Yellow, orange or red	--
Effect on nonmetals	No adverse effect	Pass	--
Storage stability	None specified	> 1 year	--
Foaming	150 ml rise, 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.