



Allied ZEREK Original Green Antifreeze Coolant

General Description

Allied ZEREK Original Green Antifreeze Coolant is a universal ethylene glycol-based formulation suitable for passenger cars, light trucks and heavy-duty vehicles. The formulation is designed for both gasoline and diesel engines and has a service life of up to five years or 100,000 miles. Its patented* low silicate formulation protects all engine cooling system metals from corrosion including aluminum. The ASTM test data shown on this sheet reflects the high performance corrosion inhibitors package.

Overview

ALLIED ZEREK Original Green, when diluted 50% with water, protects modern engine components from winter freezing and summer boil over. The chart below provides mixing information. ZEREK antifreeze coolant is compatible with many American brands of coolant. It contains a high quality defoamer and will not harm gaskets, hoses, plastics or original vehicle finishes.

ZEREK antifreeze coolant meets ASTM specification D3306 for automobiles and light trucks and ASTM D4985 for heavy duty trucks. It contains less than 250 parts per million of silicon as required by the heavy duty trucking industry.

Valvoline recommends the use of a supplemental coolant additive (SCA) for heavy duty applications.

All Allied products are formulated to meet, or exceed, all relevant industry standards. The chart below highlights the key protection and performance features and benefits provided by **ALLIED ZEREK Original Green**.

ZEREK Original Green is formulated to meet or exceed the following antifreeze specifications:

ASTM D3306	Ford ESE-M97B44-A
ASTM D4985	GM 1825M
Chrysler MS 7170	GM 1899M
Cummins 90T8-4	SAE J1034
Detroit Diesel 7SE298	SAE J1941
Federal Specification A-A-870A	SAE J814C
Navistar MPAPS B-1 Type I	TMC of ATA RP-302B

Allied recommends that spent coolant never be disposed of by dumping into a septic system, storm sewer or onto the ground. Instead, contact your state or local municipality for instructions on where to and how to properly dispose of this coolant and protect our environment.

If any coolant is spilled onto the ground, contain the spill and call the state authorities and ask for proper instruction on how to clean up the spill.

*US Patents 4,548,787 and 6,203,719

Allied ZEREX Original Green Antifreeze Coolant



Allied ZEREX Original Green Antifreeze Coolant is a universal ethylene glycol-based formulation suitable for passenger cars, light trucks and heavy-duty vehicles.

Typical Properties:

PROPERTY		
% Antifreeze	Freezing Point, °F/°C	
40		Boiling Point**, °F/°C
50		
60	-12/-24	260/126
70*	-34/-36	265/128
	-54/-48	271/133
	-90/-67	277/135

* Maximum freeze protection is at 70%.

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

ZEREX Original Green Typical Physical Properties		
Antifreeze Glycols	mass %	96.0
Corrosion Inhibitors	mass %	2
Water	mass %	2
Flash Point	°F/°C	250/121
Weight per gallon @ 60°F/16°C	lbs / KG	9.363 / 4.267
Silicates	PPM	250 max

ZEREX Original Green Aluminum Water Pump Tests		
ASTM D2809 Pump Cavitation (Extended Test)		
Test Period	Results	Specification
100 hours	8	8

ASTM cavitation corrosion rating: 10 - perfect 1 – perforated

Characteristics	Specifications	Typicals	ASTM Method
Chloride	25 PPM, max.	<25	D3634
Silicon	180-230	250	-
Specific gravity, 60/60° F	1.110 – 1.1450	1.1272	D1122
Freezing point, 50% V/V	-34°F/-36°C	-34°F/-36°C	D1177
Boiling point, undiluted	325°F/162°C	330°F/164°C	D1120
Boiling point, 50% V/V	226°F/107°C	226°F/107°C	D1120
Effect on engine or vehicle finish	No Effect	No Effect	-
Ash content, mass %	5 max	1.1	D1119
pH, 50% V/V	7.1 - 7.3	10.4	D1287
Reserve alkalinity*	10 min.	11	D1121
Water mass %	5 max.	2	D1123
Color	Distinctive	Green	-
Effect on nonmetals	No Adverse Effect	No Adverse Effect	-
Storage stability	-	>1 years	-
Foaming	150 ml Vol., max.	75 ml	D1881
	5 sec. Break, max.	2 sec.	D1881
Cavitation-erosion rating	8 min.	8	D2809

*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 with a high-quality antifreeze. Present state-of-the-art antifreeze formulations contain many new inhibitors which give added protection to certain metals but do not raise the RA number

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Typical ASTM Corrosion Test Results			
Glassware Corrosion Test	Weight Loss Mg/Specimen		ASTM Method
	Spec.	Actual	
Copper	10	1	D1384
Solder	30	2	
Brass	10	1	
Steel	10	0	
Cast iron	10	2	
Aluminum	30	0	
Simulated Service Test			
Copper	20	2	D2570
Solder	60	3	
Brass	20	3	
Steel	20	1	
Cast iron	20	4	
Aluminum	60	2	
Hot Surface Corrosion			
mg/cm ² /wk			
Specimen weight loss	1.0	0.1	D4340
Repassivation of Aluminum Surfaces			
Minimum, mV			
Average of 3 Tests	>-400	-171	D6208

This information only applies to products manufactured in the following location(s): USA, Canada, and Mexico

Material/Product:

Part #	Product
ZX001	ZEREX Original Green AFC 6/1 GAL
ZX002	ZEREX Original Green AFC 55 GAL Drum
734250	ZEREX Original Green AFC 275 GAL Tote
ZX000	ZEREX Original Green Bulk
ZXRU1	ZEREX Original Green Ready-To-Use AFC 6/1 GAL
ZXRU2	ZEREX Original Green Ready-To-Use 55 GAL Drum
808135	ZEREX Original Green Ready-To-Use 275 GAL Tote
ZXRU4	ZEREX Original Green Ready-To-Use AFC 6/64 oz.
ZXRU0	ZEREX Original Green Ready-To-Use AFC Bulk

The information on this Product Data Sheet is believed to be accurate and is typical of current production. Specifications are subject to change without notice. For additional qualifications, please contact your Allied Sales Representative.

V. 02/2021