

PRODUCT INFORMATION



VALVOLINE™ ZEREX™ G30® ANTIFREEZE COOLANT

Valvoline ZEREX G30 Antifreeze Coolant is an automotive engine coolant developed by Valvoline. The premium patent-pending carboxylate formulation has a service life of up to five years or **100,000+** miles. It incorporates state-of-the-art organic acid technology in an ethylene glycol base for protection of all cooling system metals including aluminum.

ZEREX G30 contains no phosphates, silicates, borates, nitrates, amines, and nitrites. It meets the silicate-free requirements of the Japanese automobile manufacturers and phosphate-free requirements of European automobile manufacturers. Valvoline recommends **ZEREX G30** for late model GM, Jaguar, European Ford and VW (G12) vehicles. It is dyed purple to distinguish its unique chemistry from traditional green and yellow silicate coolants

ZEREX G30 meets both the ASTM D3306 and D4985 specifications. When diluted 50% with water, it protects modern engine components from winter freezing and summer boiling. The chart below provides detailed mixing information. **ZEREX G30** is storage stable for up to five years as both a concentrate or diluted with water. It contains a high quality defoamer and will not harm gaskets, hoses, plastics or original vehicle paint.

Call 1-800- TEAM-VAL with questions.

Valvoline ZEREX G30 Antifreeze Coolant is an approved formula for the following specifications:

MB-Approval 325.3
Detroit Diesel DFS93K217ELC

DEUTZ DQC CB-14
MTU Approved

Valvoline ZEREX G30 Antifreeze Coolant is formulated to meet or exceed the following antifreeze specifications:

ASTM D3306
ASTM D4985
SAE J1034, J814, J1941
VW TL-774D

Mercedes Truck
Fiat Chrysler MS-12106
Porsche/Audi
MAN 324 SNF

Ford Europe WSS-M97B44-D
Cummins 90T8-4
Federal Specification A-A-870A
Yanmar/Scania

Valvoline 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.

ZEREX G30 Antifreeze Coolant Boil/Freeze Protection		
% Antifreeze	Freezing Point, °F/°C	Boiling Point**, °F/°C
40	-12/-24	260/126
50	-34/-36	265/128
60	-54/-48	271/133
70*	-90/-67	277/135

* Maximum freeze protection is at 70%.

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

ZEREX G30 Antifreeze Coolant Typical Physical Properties		
Antifreeze Glycols	mass %	93.0
Corrosion Inhibitors	mass %	4.0
Water	mass %	3.0
Flash Point	°F/°C	250/121
Weight per gallon @ 60°F/16°C	lbs / KG	9.407 / 4.267
Silicates	PPM	10 max.
Phosphates	PPM	30 max.

ZEREX G30 Antifreeze Coolant Aluminum Water Pump Tests		
ASTM D2809 Pump Cavitation (Extended Test)		
Test Period	Results	Specification
100 hours	9	8

ASTM cavitation corrosion rating: 10 - perfect 1 - perforated

Characteristics	Specifications	Typicals	ASTM Method
Chloride	25 PPM, max	<25	D3634
Silicon	10 PPM, max	<10	-
Specific gravity, 60/60° F	1.110 – 1.145	1.1295	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.	<3	D1119
pH, 50% V/V	7.5 – 11.0	8.6	D1287
Reserve alkalinity*	Report	10	D1121
Water mass %	5 max.	3.0	D1123
Color	Distinctive	Purple	-
Effect on nonmetals	No Adverse Effect	No Adverse Effect	-
Storage stability	-	5 years	-
Foaming	150 ml Vol., max	35 ml	D1881
	5 sec. Break, max	1 sec.	D1881
Cavitation-erosion rating	8 min.	9	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.

Typical ASTM Corrosion Test Results			
	Weight Loss Mg/Specimen		
Glassware Corrosion Test	Spec.	Actual	ASTM Method
Copper	10	3.2	D1384
Solder	30	1.4	
Brass	10	1.9	
Steel	10	2.8	
Cast iron	10	1.6	
Aluminum	30	6.4	
Simulated Service Test			
Copper	20	16.4	D2570
Solder	60	2.8	
Brass	20	4.9	
Steel	20	2.6	
Cast iron	20	-4.7	
Aluminum	60	7.7	
Hot Surface Corrosion	mg/cm ² /wk		
Specimen weight loss	1.0	0.15	D4340
Electrochemical	Minimum, mV		
Ford Pitting Test	-400	23.3	FLTM BL5-1

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

<i>Part #</i>	<i>Product</i>
ZXG302	ZEREX G30 55 GAL DRUM
733135	ZEREX G30 275 GAL TOTE
801348	ZEREX G30 RTU 5 GAL PAIL
ZXG30RU2	ZEREX G30 RTU 55 GAL DRUM
801349	ZEREX G30 RTU 33% 5 GAL PAIL
796526	ZEREX G30 RTU 33% 55 GAL DRUM

Effective Date:
9/10/21

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