

PRODUCT INFORMATION



VALVOLINE™ LONG LIFE RTU

Valvoline Long Life RTU is an advanced ready to use carboxylate formulation with a service life of up to five years or 250,000 kms/3000 hours. It incorporates state-of-the-art Organic Acid Technology (OAT) in an ethylene glycol base for protection of all cooling system metals including aluminum.

Long Life RTU coolant contains no phosphates, silicates, borates, nitrates, amines and nitrites. Its global formulation meets the phosphate-free requirements of European automobile manufacturers and the silicate free requirement of Asian automobile manufacturers like Toyota, Scion, Acura, Hyundai, Kia, Honda, Isuzu, Hino , Fuso and others. Long Life coolant RTU also meets the performance requirement of GM, Opel, Daewoo, Saab etc . It is dyed pink to distinguish its unique chemistry from traditional green and yellow silicate coolants.

Long life RTU is pre diluted with 50 % treated water and protects modern engine components from winter freezing and summer boiling. It contains a high quality defoamer and will not harm gaskets, hoses, plastics or original vehicle paint.

Valvoline Long Life RTU is formulated to meet or exceed the following antifreeze specifications:

ASTMD3306
SAE J1034
SAE J1941
SAE J814
Ford WSS-M97B44-D
Ford WSS-M97B44-D2
Saab,Opel

GM 6277M,
GMW 3420
Federal Spec A-A-870A
Fiat Chrysler MS-12106
Simens Wind Turbines
TMC of ATA RP-302B
JIS K 2234 Class 2

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 local municipal authorities and ask for proper instruction on how to clean up the spill.

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Typical property characteristics are based on current production. Whilst future production will conform to Valvoline™ specifications, variations in these characteristics may occur.

Typical Properties

Color	Pink
Sp. Gravity @ 16° C	1.08
pH	8.6
Boiling Point*, °C	128
Freeze Point, °C	-36

*Boiling Point shown using conventional 15 psi radiator cap

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	25 PPM, max.	<25	-
Specific gravity, 60/60° F,	1.110 – 1.14	1.112	D1122
Freezing point, 50% V/V	-35°F/-37°C	-35°F/-37°C	D1177
Boiling point, undiluted	325°F/163°C	330°F/162°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 %	2.5 max	1.36	D1119
pH, 50% V/V	8.3 – 8.8	8.6	D1287
Reserve alkalinity* 50% V/V	Report	2.4	D1121
Water mass %, 50% V/V	49-51	50	D1123
Color	Distinctive	Pinkish Red	-
Effect on nonmetals	No Adverse Effect	No Adverse Effect	-
Storage stability	-	5 years	-
Foaming	150 ml Vol., max.	31.7 ml	D1881
	5 sec. Break, max.	3 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.

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Typical ASTM Corrosion Test Results

	Weight Loss Mg/Specimen		ASTM Method
	Spec.	Actual	
Glassware Corrosion Test			
Copper	10	2	D1384
Solder	30	6	
Brass	10	3	
Steel	10	0	
Cast iron	10	0	
Aluminum	30	0	
Simulated Service Test			
Copper	20	2	D2570
Solder	60	5	
Brass	20	1	
Steel	20	1	
Cast iron	20	0	
Aluminum	60	0	
Hot Surface Corrosion	mg/cm ² /wk		
Specimen weight loss	1.0	0.1	D4340
Electrochemical	Minimum, mV		
Ford Pitting Test	>-400	-120.7	FLTM BL5-1

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales representative or through our website <https://sds.valvoline.com/>

This information only applies to products manufactured in the following location(s): India

Effective date
AUG 2020

Author
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