

1. Description

Premixed and ready-to-use product specifically designed for indirect battery cooling. Based on ethylene glycol and has a low electrical conductance OAT technology. Contains silicate-free additive technology to provide long-life corrosion protection for metal, especially aluminium, cast iron, steel and stainless steel, red and yellow metals such as copper and brass.

2. Benefits

Valiantech EVC Coolant 50/50 Premix offers many benefits to the engine designer as well as to the user:

- Stable and reduced electrical conductivity to minimise the effect of short circuit
- Significant reduction of the consequential generation of hydrogen due to electrolysis
- Outstanding and long lasting corrosion protection
- Compatible with common elastomers as well as thermoplastics
- Ensured longevity of component
- Reduced maintenance

3. Area of Application

Valiantech EVC Coolant 50/50 Premix is designed as a liquid heat transfer medium for indirect cooling for battery cells, modules and packs where coolants with low electrical conductivity are required. It is not intended for use in traditional engine coolant applications. It should not be applied in fuel cells nor immersive cooling applications where direct electrical contact is possible. Caution must be exercised where **Valiantech EVC Coolant 50/50 Premix** is used in combination with electrical motors, power electronics, auxiliary heaters or other heat rejecting devices as premature increase of electrical conductivity may occur.

4. Application Method

Drain and rinse the cooling system with **Valiantech RO Water** and fill with **Valiantech EVC Coolant 50/50 Premix** until full. Disposal according to local regulations. Interval changes are based on manufacturer's instructions and recommendations.

5. Technical Data

Characteristics	Units	Range	Test Method	Results
Appearance	-	Report	Visual	Teal
Density @ 20Deg.C	g/mL	1.02 to 1.08	ASTM D 5931	1.040
pH 20Deg.C 50%	--	Report	ASTM D 1287	7.100
Freezing Point	°C	≤-34	ASTM 1177	-37
Boiling Point	°C	>108	ASTM D 1120	110
eConductivity (25°C)	µS/cm	<100	ASTM D1125	35
Hard Water Stability	ppm	<100	VW PV 1426	None

6. Storage & Requirements

Valiantech advises to test the coolant's electrical conductivity and pH before the product is added to the system as a standard practice, especially when the storage period has exceeded one year. **Valiantech EVC Coolant 50/50 Premix** can be stored for 24 months at max. 30°C in unopened recipients without any effect on the product quality or performance. It is strongly recommended to use new, non-translucent containers and where possible with a UV filter. Direct sunlight and high temperatures can degrade the quality of the product. **Valiantech EVC Coolant 50/50 Premix** should be stored above -20°C and below 30°C. Periods of exposure to temperatures above 35°C should be minimized.