

Technology BSC-2 approved

Q8 TMF-EV LC

Thermal Management Fluid with low conductivity for battery electric vehicle (BEV)

Description

Q8 TMF-EV LC is a ready to use liquid heat transfer medium for indirect cooling of battery cells, modules and packs where coolants with low electrical conductivity are required. Q8 TMF-EV LC is miscible with other low conductive fluids with a similar conductivity range. TMF-EV LC provides 5 fold protection: electrical safety, material protection, flux stabilisation, boiling protection and frost protection

Applications

Q8 TMF-EV LC is a Low Conductivity Thermal Management Fluid for Battery Electric Vehicles requiring a low electrical conductivity of maximum 100 µS/cm. Optimized thermal conductivity properties for optimized thermal management performance throughout the full operating temperature range for highest efficiency of the Battery Electric Vehicle.

Benefits

China GB

- Premium protection against rust and corrosion.
- Outstanding protection against cavitation in the cooling water system.
- Outstanding protection of the cooling system in a wide range of operating conditions
- Exceptional corrosion protection of coolant system metal compositions and solders.

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Environment, Health and Safety

Caution must be exercised when Q8 TMF-EV LC is used in combination with electrical motors, power electronics, auxiliary heaters or other heat rejecting devices as premature increase of electrical conductivity may occur.

Hyundai/Kia

Specifications, recommendations and approvals

Properties			
	Method	Unit	Typical
Appearance	Visual	-	Light Blue
Density, 20 °C	D 1122	kg/l	1120
Freezing Protection 50-50%	D 1177	°C	-36
Equilibrium Reflux Boiling Point	D 1120	°C	111
Pour Point	D 97	°C	-45
eConductivity (25°C)	ASTM D1125	μS-cm	100
eConductivity (60°C)	ASTM D1125	μS-cm	188
рН	D 1287	-	8,2
Kinematic Viscosity, 20 °C	D 445	mm²/s	3,7

 $The figures \ above \ are \ not \ a \ specification. \ They \ are \ typical \ figures \ obtained \ within \ production \ tolerances.$

Remarks

It is not intended for use in traditional engine coolant applications. It should not be applied in fuel cell nor immersive cooling applications where direct electrical contact is possible.

Sustainability

The product Carbon Footprint (PCF), cradle-to-gate (Q80ils state of the art facility in Belgium), of Q8 TMF-EV LC is $\bf 2.11~kg~CO_2eq/kg$.

Please contact Q80ils to learn more about the positive environmental impact, the

handprint, of this product.
To ensure accuracy and reliability, the PCF calculation tool has been verified by an independent third party. The verification report is available in the disclaimer.
For more info check here



