

## 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  $\mu\text{S}/\text{cm}$ . Optimized thermal conductivity properties for optimized thermal management performance throughout the full operating temperature range for highest efficiency of the Battery Electric Vehicle.

### Benefits

- 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.

### 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.

### Specifications, recommendations and approvals

Hyundai/Kia Technology BSC-2 approved

### 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	$\mu\text{S}\text{-cm}$	100
eConductivity (60°C)	ASTM D1125	$\mu\text{S}\text{-cm}$	188
pH	D 1287	-	8,2
Kinematic Viscosity, 20 °C	D 445	$\text{mm}^2/\text{s}$	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 (Q8Oils state of the art facility in Belgium), of Q8 TMF-EV LC is **2.11** kg CO<sub>2</sub>eq / kg.*

*Please contact Q8Oils to learn more about the positive environmental impact, the handprint, of this product.  
For more info check here*



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