

# Coolelf EV Micro

Ready-to-use coolant • Non-ionic Technology



DEDICATED TO  
FUEL CELL ELECTRIC VEHICLES (FCEV) and BEV

## DESCRIPTION

**Coolelf EV Micro** is a premium **Fuel Cell Electric Vehicle (FCEV)** coolant based on ultra-pure water and high-purity antifreeze grade ethylene glycol, with low conductivity.

**Coolelf EV Micro** is a non-ionic additive technology coolant.

**Coolelf EV Micro** is exempt from potential harmful additives such as 2-EHA, nitrites, borates, amines leading to a safer environment. It is also compliant with EU CO2 emission performance standards.

## SPECIFICATIONS

The antifreeze used in **Coolelf EV** meets the **international specifications** for antifreezes:

- GB 29743.3-20xx (*in development*)

The antifreeze used in **Coolelf EV Micro** **meets the requirements** of:

- Sunrise Power Fuel-Cell Systems
- King Long
- Renault – Hyvia – Fuel-Cell Hydrogen Vehicles
- BYD
- Symbio

The antifreeze used in **Coolelf EV Micro** is **recommended** for the following manufacturers:

- Caterpillar
- Hopium

## CHARACTERISTICS

COLOUR	-	COLORLESS
Density at 20°C	ASTM D5931	1.065
pH	ASTM D1287	5.75
eConductivity at 25°C	ASTM D1125	< 3 µS/cm
eConductivity at 80°C	ASTM D1125	< 5 µS/cm
Temperature at which the first ice crystals occur	ASTM D1177	-35°C
Boiling Temperature	ASTM D1120	108°C

The typical characteristics mentioned represent mean values.



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This coolant used in accordance with our recommendations and for the application for which it is intended does not represent a special hazard. A safety data file conforming to the requirements of current EC legislation is available from your local trade consultant.

## APPLICATION

### READY TO USE PRODUCT

**Coolelf EV Micro** is ready for use, as a mix with ultra pure water. Suitable for use in Fuel Cell Electric Vehicle (FCEV) applications.

### MULTI-MATERIAL COMPATIBILITY

**Coolelf EV Micro** offers corrosion protection for fuel cell system components, i.e. stainless steel, aluminium, copper, brass and common elastomers as well as thermoplastics found in fuel cell cooling systems.

### FCEV COMPATIBILITY

**Coolelf EV Micro** is compatible with fuel cell cooling system components including but not limited to the ion exchanger, radiators and hoses.

## CUSTOMER BENEFITS

### OPERATION SAFETY

Low and stable electrical conductivity (< 5  $\mu\text{S}/\text{cm}$ )

### EXCELLENT FLOW CHARACTERISTICS

The non-ionic additives in **Coolelf EV Micro** gives the coolant:

- Low viscosity
- Reduced back pressure
- Less wear on parts, bipolar plate protection and crack prevention.

### COST SAVING RELIABILITY

Maintenance free coolant with depletion-free and stable inhibitors.

### ENVIRONMENT

Carefully selected additives to reduce environmental impact.

## SHELFLIFE & STORAGE

**Coolelf EV Micro** can be stored for 18 months 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 packages with a UV filter. Direct sunlight and high temperatures can degrade the quality of the product. In case the storage period has exceeded one year, it is strongly recommended to test the coolant on pH and electrical conductivity before the product is added to the system.

**Coolelf EV Micro** should be stored below 30°C. Periods of exposure to temperatures above 35°C should be minimized.

## TOXICITY & SAFETY

For toxicity information, safe handling and disposal of the product, we refer to the Safety Data Sheet. This product should not be used to protect the inside of drinking water systems.



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