

Coolelf EV

Ready-to-use coolant • O.A.T. Low Conductive



ANTI-FREEZING



ANTI-CORROSION



ANTI-BOILING



DEDICATED TO BATTERY ELECTRIC VEHICLE (BEV)

DESCRIPTION

Coolelf EV is a premium **Battery Electric Vehicle (BEV)** coolant based on ultra-pure water and high-purity antifreeze grade ethylene glycol, with reduced conductivity.

Coolelf EV 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 29743.2-20xx (*in development*)

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

- Delta Cosworth

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

- Hyundai
- Kia

CHARACTERISTICS

COLOUR		LIGHT BLUE-GREEN
Density at 20°C	ASTM D5931	1.067
pH	ASTM D1287	8.2
eConductivity at 25°C	ASTM D1125	96 µS/cm
eConductivity at 60°C	ASTM D1125	188 µS/cm
Reserve Alkalinity (to pH 5.5)	ASTM D1121	1.4 ml HCl 0.1N
Temperature at which the first ice crystals occur	ASTM D1177	-37°C
Boiling Temperature	ASTM D1120	111°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 is ready for use, as a mix with ultra pure water. Suitable for use in Battery Electric Vehicle (BEV).

MULTI-MATERIAL COMPATIBILITY

Coolelf EV offers corrosion protection to metals, especially aluminium, cast iron, steel and stainless steel, red and yellow metals such as copper and brass. **Coolelf EV** is also compatible with common elastomers as well as thermoplastics found in BEV cooling system.

CUSTOMER BENEFITS

ELECTRICAL SAFETY

- Stable and reduced electrical conductivity (< 100 $\mu\text{S}/\text{cm}$)
- Thanks to its reduced electrical conductivity, the effects of short circuit paths are minimized
- Significant reduction of the consequential generation of hydrogen due to electrolysis compared to classic water-based coolants.

FLUX STABILISATION

Coolelf EV is the first coolant of its kind to compensate for aluminium CAB brazing flux, improving the compatibility of the coolant.

COST SAVING RELIABILITY

Maintenance free coolant with depletion-free and stable inhibitors.

ENVIRONMENT

Carefully selected additives to reduce environmental impact.

SHELF LIFE & STORAGE

Coolelf EV 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.

Coolelf EV should be stored above -20°C and 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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