

REX-e THERMAL EV-LC COOLANT

REXOIL REX-e THERMAL EV-LC COOLANT is a low-conductivity thermal coolant specifically developed to meet the unique requirements of electric and hybrid vehicles.

Its specially formulated ethylene glycol-based composition, combined with **Phosphated Organic Acid Technology (P-OAT)**, provides outstanding corrosion protection for aluminum and other metals used in modern cooling systems. It is particularly recommended for vehicles requiring P-OAT coolant technology, including many models from **Toyota, Nissan, Hyundai, Kia, and Honda**.

The formulation is free from silicates, borates, nitrates, and amines. This makes it an ideal choice for modern cooling systems requiring an amine-free inhibitor package while ensuring full compatibility with high-voltage electric vehicle cooling applications.

Features and Benefits

- Offers up to 5 years / 250,000 km in light-duty applications and 600,000 km / 12,000 hours in heavy-duty service, reducing maintenance frequency and cost.
- Resists ion build-up from system materials, maintaining low conductivity critical for high-voltage component safety.
- Maintains protective film integrity during rapid charge/discharge cycles and under prolonged high-load driving.
- It is minimizing abrasive wear on water pump seals, eliminating silica gel formation, and ensuring compatibility.
- It can be used in mixed-metal systems (aluminum, cast iron, copper, brass, and soldered joints).

Approval and Specifications

ASTM D3306; ASTM D6210; JIS K2234; FORD VC-10-A2; FORD WSS-M97B55; Ford WSS-M97B57-A1; HONDA 08CLA010S0 Honda E Coolant; HONDA TYPE 2; HONDA OL 199 Type 2; HYUNDAI 00232-19010;; HYUNDAI 07100-00400; HYUNDAI Long Life Coolant; LEXUS SFU; MAZDA MES 121C FL22; MAZDA 000077508E20; MAZDA C100CL005A4X; MAZDA C122CL005A4X; MAZDA FL 22; MITSUBISHI DIA QUEEN SUPER LL COOLANT;; NISSAN KE90299944; NISSAN L255N; RENAULT RX TYPE E COOLANT; SUBARU Coolant 16218; SUZUKI (SUPER) LL COOLANT; TOYOTA TSK 2601G-8A

OEM	Model(s)	Vehicle Type	Cooling Loop(s)	Notes
Toyota / Lexus	Prius (all gens), Camry Hybrid, Corolla Hybrid, RAV4 Hybrid & PHEV, Lexus ES/RX/NX hybrids	Hybrid / PHEV	Engine, Inverter, Battery	Factory-fill P-OAT, amine-free
Nissan / Infiniti	Leaf, Ariya, e-Power series	EV / Hybrid	Motor/Inverter, Battery	Low-conductivity P-OAT in EV loops
Honda / Acura	Insight, Accord Hybrid, CR-V Hybrid, Clarity PHEV & FCEV, Acura Sport Hybrids	Hybrid / PHEV / FCEV	Engine, Inverter, Battery	Uses phosphate for rapid AI protection
Hyundai / Kia / Genesis	Ioniq Hybrid/PHEV/EV, Kona EV/Hybrid, Nexo FCEV, Niro Hybrid/PHEV/EV, EV6, Ioniq 5/6	Hybrid / PHEV / EV / FCEV	Motor/Inverter, Battery, Engine (Hybrid models)	P-OAT meets Korean OEM phosphate spec
Mitsubishi	Outlander PHEV, Eclipse Cross PHEV	PHEV	Engine, Inverter, Battery	Compatible with OEM long-life P-OAT
Mazda	MX-30 EV, hybrid models (Japan market)	EV / Hybrid	Motor/Inverter, Battery	Uses P-OAT in liquid-cooled battery loop

Technical Specifications

Test	Method	Typical Properties
Color	-	Pink
Electrical Conductivity @ 25 C (µS/cm)	ASTM D 1125	Max. 100 µS/cm
Boiling Point, °C	ASTM D 1120	Min. 110
Freezing Point	ASTM D 1177	-50
Density @ 20°C, kg/l	ASTM D 4052	1,005 – 1,120
pH	ASTM D 1293	7,0 – 9,0
Reserve Alkalinity, ml	ASTM D 1121	4,5 – 5,5

Health and Safety

This product does not pose a significant health or safety risk when used appropriately. For detailed safety information, please refer to the Safety Data Sheet (SDS).

Storage & Handling

Store in a dry, clean environment at temperatures between -10°C and +40°C. Keep the container tightly closed and avoid contamination.