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Global EV Coolants Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global EV Coolants market size is expected to reach $ 2270 million by 2032, rising at a market growth of 14.9% CAGR during the forecast period (2026-2032).

EV Coolant is a heat exchange medium used in the cooling systems of pure electric vehicles and other new energy vehicles that use power batteries as their energy storage power source. It ensures the normal operation of the vehicle's thermal management system. Thermal management is one of the core technologies of new energy vehicles, and coolant is an indispensable functional component for achieving the temperature control goals of the battery thermal management system. As core components of new energy vehicles, the battery pack and drive motor require cooling and temperature control through the cooling medium in the thermal management system to ensure the safe operation of the battery pack and motor, and to maximize the efficiency and lifespan of the battery pack. Electric vehicle coolant serves two main purposes: First, it ensures the thermal stability and uniformity of the power battery pack, keeping the battery pack within its optimal operating temperature range and preventing thermal runaway of the entire power battery source caused by localized overheating. The losses resulting from thermal runaway of the power battery pack would be extremely severe. Coolant protects the safety of the core component, the power battery pack, thereby ensuring the safety of electric vehicle use, property safety, and personal health. Second, it manages the heat dissipation of the drive motor, promptly dissipating the motor's operating heat to prevent thermal shutdown and ensure the safe operation of the motor.

The upstream supply chain is centered on base fluids such as ethylene glycol, propylene glycol, and glycerin, plus corrosion-inhibitor additives, dyes, deionized water, and packaging materials.Downstream demand is split between OEM factory fill and

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aftermarket/service fill, with the aftermarket generally representing the more stable and recurring demand stream.

In 2025, global EV coolants production reached approximately 1 million tons, with an average global market price is $800 per ton.

From the product perspective, EV coolants are functional fluids specifically designed for the thermal management systems of battery electric vehicles, plug-in hybrid electric vehicles, and fuel cell vehicles. They are mainly used for temperature control and heat transfer in battery packs, electric motors, power electronics, and other high-power electronic components. Compared with conventional internal combustion engine coolants, EV coolants must not only provide antifreeze, anti-boil, anticorrosion, and long-term stability, but also meet stricter requirements in electrical conductivity, material compatibility, heat exchange efficiency, and operational safety. As a result, product development in this segment is increasingly focused on low conductivity, long service life, compatibility with multiple materials, and reliable operation under complex working conditions. With electric vehicles moving toward longer range, higher power fast charging, and greater system integration, the strategic importance of coolants in vehicle thermal management continues to rise.

From the demand-side perspective, competition in the electric vehicle coolant market is shifting from basic cooling performance toward a more comprehensive balance among low-conductivity control, corrosion resistance, thermal management efficiency, long-life performance, and compatibility with battery, e-drive, and thermal system materials. In particular, in high-voltage platforms, fast-charging vehicles, and high-performance EV applications, downstream customers are placing increasingly higher requirements on coolant stability, safety, and system matching capability, which is driving the market toward higher performance, specialization, and customization. At the same time, as automakers and core component suppliers place greater emphasis on thermal management efficiency and vehicle reliability, suppliers with strong formulation capability, validation experience, and OEM qualification records are expected to gain clearer competitive advantages.

From the industry trend perspective, the electric vehicle coolant market is expected to maintain solid growth potential, supported by rising global EV production and sales, upgrades in battery fast-charging technology, and increasing complexity of vehicle thermal management systems. At the same time, the industry also faces pressure from raw material cost fluctuations, tightening environmental regulations, and growing downstream demand for cost reduction. Overall, electric vehicle coolants are evolving

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from conventional auxiliary consumables into critical functional materials within thermal management systems, and are expected to maintain strong development momentum in battery thermal management, e-drive cooling, and high-performance EV applications.

This report studies the global EV Coolants production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for EV Coolants and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of EV Coolants that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global EV Coolants total production and demand, 2021-2032, (Kilotons)
Global EV Coolants total production value, 2021-2032, (USD Million)
Global EV Coolants production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)
Global EV Coolants consumption by region & country, CAGR, 2021-2032 & (Kilotons)
U.S. VS China: EV Coolants domestic production, consumption, key domestic manufacturers and share
Global EV Coolants production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)
Global EV Coolants production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)
Global EV Coolants production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global EV Coolants market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Exxon Mobil, Prestone, Castrol, TotalEnergies, BASF, Chevron, FUCHS, Old World Industries, Valvoline, Guangdong Delian, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World EV Coolants market

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Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Kilotons) and average price (US$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global EV Coolants Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global EV Coolants Market, Segmentation by Type:

Concentrates

Premixes

Global EV Coolants Market, Segmentation by Additive Technology:

Inorganic Acid Technology (IAT)

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Organic Acid Technology (OAT)

Mixed Organic Acid Technology (HOAT)

Global EV Coolants Market, Segmentation by Vehicle:

Passenger Car

Commercial Vehicle

Global EV Coolants Market, Segmentation by Application:

OEM

Aftermarket

Companies Profiled:

Exxon Mobil

Prestone

Castrol

TotalEnergies

BASF

Chevron

FUCHS

Old World Industries

Valvoline

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Guangdong Delian

Sinopec

CNPC

China-TEEC

Solar Applied Materials

Jiangsu Lopal Tech.

Arteco

Recochem

Gulf

Key Questions Answered:
1. How big is the global EV Coolants market?
2. What is the demand of the global EV Coolants market?
3. What is the year over year growth of the global EV Coolants market?
4. What is the production and production value of the global EV Coolants market?
5. Who are the key producers in the global EV Coolants market?
6. What are the growth factors driving the market demand?

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