

Global Propylene Glycol Automotive Antifreeze Coolant Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Propylene Glycol Automotive Antifreeze Coolant market size is expected to reach \$ 2345 million by 2032, rising at a market growth of 3.5% CAGR during the forecast period (2026-2032).

Propylene glycol automotive antifreeze coolant is an engine and vehicle thermal-management fluid formulated primarily with propylene glycol (PG/MPG), together with deionized water and additive packages such as corrosion inhibitors, anti-scale agents, anti-foam components, and pH buffers. Its core functions are to prevent freezing at low temperature, raise boiling protection at high temperature, maintain stable heat transfer, and protect mixed-metal cooling-system materials. Compared with ethylene-glycol products, PG-based coolants are commonly positioned around lower toxicity, biodegradability, and higher handling safety. ASTM D3306 explicitly includes propylene glycol base engine coolants within the scope of automotive/light-duty engine coolant standards.

The upstream supply chain is centered on base fluids such as propylene glycol, plus corrosion-inhibitor additives, dyes, deionized water, and packaging materials. Downstream demand is split between OEM factory fill and aftermarket/service fill, with the aftermarket generally representing the more stable and recurring demand stream.

In 2025, global xxx production reached approximately 2 million tons, with an average global market price is \$900 per ton.

Propylene Glycol Automotive Antifreeze Coolant is a vehicle thermal management fluid

formulated with propylene glycol as the primary antifreeze component. It is widely used in passenger vehicles, commercial vehicles, and some new energy vehicle cooling systems, where it provides freeze protection, heat dissipation, boiling point elevation, corrosion protection, scale prevention, and water pump lubrication. Compared with ethylene glycol-based products, propylene glycol coolants are generally positioned around lower toxicity and improved handling safety, making them more attractive in applications where environmental profile, human-contact safety, or specific regulatory requirements are more important. For OEMs and component suppliers, it is not just a simple antifreeze liquid, but a critical functional medium that works together with the radiator, water pump, thermostat, hoses, expansion tank, and the overall vehicle thermal management strategy. Its performance directly affects temperature control, cold-start capability, and the long-term durability of the cooling circuit.

From a technical and product perspective, differentiation in propylene glycol automotive antifreeze coolant is not defined only by glycol concentration, but more importantly by corrosion inhibitor chemistry, formulation stability, and compatibility with different material systems. Mainstream products are generally built around inorganic, organic acid, or hybrid inhibitor technologies, with clear differences in aluminum protection, long-life performance, compatibility with rubber and plastic components, and service interval. Downstream customers usually pay closer attention to freezing and boiling point range, heat transfer and flow behavior, low-temperature adaptability, corrosion protection for aluminum cooling parts and composite materials, as well as deposit control and system cleanliness over long-term use. As vehicle thermal systems become more complex, coolant competition is shifting from basic functional compliance toward broader performance balance and platform compatibility.

From an industry trend perspective, propylene glycol automotive antifreeze coolant is evolving from a relatively niche substitute product into a more application-specific functional fluid that emphasizes safety, environmental profile, and targeted system compatibility. On one hand, conventional fuel vehicles and commercial vehicles continue to provide a stable base of demand. On the other hand, as OEMs place greater emphasis on thermal management reliability, long-life maintenance intervals, and material compatibility, certain applications are paying more attention to lower toxicity, lower volatility, and gentler system protection characteristics. This means future competition will not be determined only by price or basic freeze protection, but by who can achieve a better balance among cooling efficiency, safety profile, formulation life, and OEM fitment. For suppliers, companies with strong capabilities in feedstock sourcing, additive development, OEM qualification, and regional delivery are more likely to build an advantage in this segment.

This report studies the global Propylene Glycol Automotive Antifreeze Coolant production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Propylene Glycol Automotive Antifreeze Coolant 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 Propylene Glycol Automotive Antifreeze Coolant that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Propylene Glycol Automotive Antifreeze Coolant total production and demand, 2021-2032, (Kilotons)

Global Propylene Glycol Automotive Antifreeze Coolant total production value, 2021-2032, (USD Million)

Global Propylene Glycol Automotive Antifreeze Coolant production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Propylene Glycol Automotive Antifreeze Coolant consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Propylene Glycol Automotive Antifreeze Coolant domestic production, consumption, key domestic manufacturers and share

Global Propylene Glycol Automotive Antifreeze Coolant production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Propylene Glycol Automotive Antifreeze Coolant production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Propylene Glycol Automotive Antifreeze Coolant production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Propylene Glycol Automotive Antifreeze Coolant 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 Prestone, Shell, Exxon Mobil, Castrol, TotalEnergies, CCI Corporation, BASF, Chevron, FUCHS, Old World Industries, 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 Propylene Glycol Automotive Antifreeze Coolant market

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 Propylene Glycol Automotive Antifreeze Coolant Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Propylene Glycol Automotive Antifreeze Coolant Market, Segmentation by Type:

Concentrates

Premixes

Global Propylene Glycol Automotive Antifreeze Coolant Market, Segmentation by

Additive Technology:

Inorganic Acid Technology (IAT)

Organic Acid Technology (OAT)

Mixed Organic Acid Technology (HOAT)

Global Propylene Glycol Automotive Antifreeze Coolant Market, Segmentation by Sales Channel:

OEM

Aftermarket

Global Propylene Glycol Automotive Antifreeze Coolant Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

Companies Profiled:

Prestone

Shell

Exxon Mobil

Castrol

TotalEnergies

CCI Corporation

BASF

Chevron

FUCHS

Old World Industries

Valvoline

Sinopec

CNPC

China-TEEC

Guangdong Delian

KEMITEC

Kost USA

Amsoil

Recochem

Gulf Oil International

Paras Lubricants

Solar Applied Materials

Evans Cooling Systems

ABRO Industries

Jiangsu Lopal Tech.

Key Questions Answered:

1. How big is the global Propylene Glycol Automotive Antifreeze Coolant market?
2. What is the demand of the global Propylene Glycol Automotive Antifreeze Coolant market?
3. What is the year over year growth of the global Propylene Glycol Automotive Antifreeze Coolant market?
4. What is the production and production value of the global Propylene Glycol Automotive Antifreeze Coolant market?
5. Who are the key producers in the global Propylene Glycol Automotive Antifreeze Coolant market?
6. What are the growth factors driving the market demand?

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