

# Global Propylene Glycol Based Antifreeze Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Propylene Glycol Based Antifreeze market size is expected to reach \$ 3163 million by 2032, rising at a market growth of 3.7% CAGR during the forecast period (2026-2032).

Propylene Glycol-based Antifreeze is a coolant with propylene glycol as the main component. Propylene glycol-based coolants are less toxic than ethylene glycol-based coolants and therefore safer in some applications. Propylene glycol-based coolants are the first choice for many industries, especially the food and pharmaceutical industries, due to their low toxicity and environmentally friendly properties. With proper use and maintenance, propylene glycol-based coolants can significantly improve the efficiency and safety of your cooling system and extend the life of your equipment.

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 propylene glycol-based antifreeze production reached approximately 2.7 million tons, with an average global market price is \$900 per ton.

Propylene Glycol Based Antifreeze is a functional heat-transfer and protective fluid formulated with propylene glycol as the primary active ingredient. It is widely used in automotive cooling systems, industrial circulation cooling systems, HVAC applications, and a variety of equipment scenarios requiring low-temperature protection and thermal management. Its role goes far beyond simply lowering the freezing point. It also helps

raise the boiling point, maintain fluid stability across a wide temperature range, and, through the use of corrosion inhibitors, antifoaming agents, antiscaling additives, and pH regulators, provides long-term protection against corrosion, deposits, and system deterioration. For downstream users, propylene glycol based antifreeze is not just a low-temperature protection liquid, but a critical functional medium that directly affects heat-transfer efficiency, material compatibility, operating safety, and overall equipment life.

From a technical and product perspective, the differentiation of propylene glycol based antifreeze is determined not only by glycol concentration, but also by overall formulation design and application fit. Mainstream products are typically based on propylene glycol and water, combined with inorganic, organic acid, or hybrid inhibitor systems to protect aluminum alloys, cast iron, copper, solder, rubber seals, and engineering plastics across different operating environments. Compared with ethylene glycol systems, propylene glycol based products are generally positioned around lower toxicity and improved safety in use, making them more attractive in food-related environments, human-contact-sensitive scenarios, and applications with stricter environmental requirements. Downstream customers usually focus on freezing and boiling point performance, thermal stability, low-temperature fluidity, long-term corrosion protection, system cleanliness, and compatibility with multi-material systems.

From an industry trend perspective, propylene glycol based antifreeze is evolving from a relatively niche substitute product into a more specialized functional fluid that emphasizes safety profile, environmental performance, and application-specific compatibility. On one hand, automotive, industrial equipment, and HVAC systems continue to provide a stable base of demand. On the other hand, downstream customers are placing increasing emphasis on long service life, low maintenance, low toxicity, low volatility, and comprehensive protection for multi-metal systems. This is pushing competition beyond basic freeze protection toward formulation technology, regulatory adaptability, and end-use delivery capability. For suppliers, the most competitive companies in the future will not simply be those providing propylene glycol itself, but those capable of delivering finished-fluid solutions tailored to specific applications with a strong balance of heat transfer, protection, durability, and safety.

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

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

### **Highlights and key features of the study**

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

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

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

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

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

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

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

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

This report profiles key players in the global Propylene Glycol Based Antifreeze 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 Based Antifreeze 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 Based Antifreeze Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Propylene Glycol Based Antifreeze Market, Segmentation by Type:

Concentrates

Premixes

#### Global Propylene Glycol Based Antifreeze Market, Segmentation by Additive Technology:

Inorganic Acid Technology (IAT)

Organic Acid Technology (OAT)

Mixed Organic Acid Technology (HOAT)

## Global Propylene Glycol Based Antifreeze Market, Segmentation by Sales Channel:

OEM

Aftermarket

## Global Propylene Glycol Based Antifreeze Market, Segmentation by Application:

Automotive

Industrial

Others

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

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