

Global Propylene Glycol Based Antifreeze Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Propylene Glycol Based Antifreeze market size was valued at US\$ 2475 million in 2025 and is forecast to a readjusted size of US\$ 3163 million by 2032 with a CAGR of 3.7% during review period.

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 is a detailed and comprehensive analysis for global Propylene Glycol Based Antifreeze market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Propylene Glycol Based Antifreeze market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Propylene Glycol Based Antifreeze market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Propylene Glycol Based Antifreeze market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Propylene Glycol Based Antifreeze market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Propylene Glycol Based Antifreeze

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Propylene Glycol Based Antifreeze market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Propylene Glycol Based Antifreeze market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Concentrates

Premixes

Market segment by Additive Technology

Inorganic Acid Technology (IAT)

Organic Acid Technology (OAT)

Mixed Organic Acid Technology (HOAT)

Market segment by Sales Channel

OEM

Aftermarket

Market segment by Application

Automotive

Industrial

Others

Major players covered

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.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Propylene Glycol Based Antifreeze product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Propylene Glycol Based Antifreeze, with price, sales quantity, revenue, and global market share of Propylene Glycol Based Antifreeze from 2021 to 2026.

Chapter 3, the Propylene Glycol Based Antifreeze competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Propylene Glycol Based Antifreeze breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Propylene Glycol Based Antifreeze market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Propylene Glycol Based Antifreeze.

Chapter 14 and 15, to describe Propylene Glycol Based Antifreeze sales channel, distributors, customers, research findings and conclusion.

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