

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

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Abstracts

The global Glycol Antifreeze market size is expected to reach \$ 5749 million by 2032, rising at a market growth of 2.0% CAGR during the forecast period (2026-2032).

Glycol antifreeze is a vehicle thermal-management fluid formulated primarily with monoethylene glycol (MEG), combined with deionized water and additive packages such as corrosion inhibitors, anti-scale agents, anti-foam components, and dyes. Its main functions are to prevent freezing at low temperature, raise boiling protection at high temperature, maintain heat transfer, and protect aluminum, copper, solder, elastomers, and other cooling-system materials over long service intervals. It is commonly sold as concentrate or 50/50 premix, and is further differentiated by IAT, OAT, and HOAT chemistry platforms.

The upstream supply chain is centered on base fluids such as ethylene 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 glycol antifreeze production reached approximately 6.5 million tons, with an average global market price is \$750 per ton.

Glycol antifreeze is a functional heat-transfer and protection fluid formulated with ethylene glycol as the primary active component. It is widely used in automotive cooling systems, industrial circulation cooling systems, HVAC applications, and various low-temperature protection scenarios for equipment. Its role goes far beyond simply lowering the freezing point. It also helps raise the boiling point, maintain stable thermal

performance across a wide temperature range, and, through the addition of corrosion inhibitors, antifoaming agents, antiscaling additives, and pH regulators, provides long-term protection against corrosion, deposits, and system degradation. For downstream users, ethylene glycol-based antifreeze is not just a ?low-temperature liquid,? but a critical functional medium that directly affects heat transfer efficiency, cold-start reliability, material compatibility, and overall service life.

From a technical and product perspective, the differentiation of ethylene glycol-based antifreeze is determined not only by glycol concentration, but more importantly by its overall formulation system and application fit. Mainstream products are typically based on ethylene glycol and water, combined with different corrosion inhibitor technologies such as inorganic additive systems, organic acid systems, or hybrid systems, depending on the target application and materials involved. These formulations are designed to protect cast iron, aluminum alloys, copper, solder, rubber seals, and engineering plastics across different system configurations. Customers usually focus on freezing and boiling point performance, thermal stability, long-term corrosion protection, hard-water tolerance, low-temperature fluidity, and compatibility with system materials. As operating environments become more demanding and service-life expectations increase, ethylene glycol antifreeze has evolved from a basic protective liquid into a formulation-driven product that directly influences system efficiency and maintenance cost.

From an industry trend perspective, ethylene glycol-based antifreeze is moving away from being treated as a generic bulk chemical and toward a more segmented, longer-life, and application-specific functional fluid. 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 greater emphasis on long drain intervals, low-maintenance characteristics, environmental compliance, and comprehensive protection for multi-metal systems. This is pushing the market toward products with lower deposit formation, lower odor, lower volatility, and stronger material compatibility. For the supply chain, competition is no longer driven only by raw material cost, but increasingly by formulation design, batch consistency, application certification, and delivery stability. In the future, the most competitive suppliers are likely to be those that provide not just ethylene glycol itself, but complete, application-oriented finished-fluid solutions.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Glycol Antifreeze Market, Segmentation by Type:

Concentrates

Premixes

Global Glycol Antifreeze Market, Segmentation by Additive Technology:

Inorganic Acid Technology (IAT)

Organic Acid Technology (OAT)

Mixed Organic Acid Technology (HOAT)

Global Glycol Antifreeze Market, Segmentation by Sales Channel:

OEM

Aftermarket

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

Contents

1 SUPPLY SUMMARY

- 1.1 Glycol Antifreeze Introduction
- 1.2 World Glycol Antifreeze Supply & Forecast
 - 1.2.1 World Glycol Antifreeze Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Glycol Antifreeze Production (2021-2032)
 - 1.2.3 World Glycol Antifreeze Pricing Trends (2021-2032)
- 1.3 World Glycol Antifreeze Production by Region (Based on Production Site)
 - 1.3.1 World Glycol Antifreeze Production Value by Region (2021-2032)
 - 1.3.2 World Glycol Antifreeze Production by Region (2021-2032)
 - 1.3.3 World Glycol Antifreeze Average Price by Region (2021-2032)
 - 1.3.4 North America Glycol Antifreeze Production (2021-2032)
 - 1.3.5 Europe Glycol Antifreeze Production (2021-2032)
 - 1.3.6 China Glycol Antifreeze Production (2021-2032)
 - 1.3.7 Japan Glycol Antifreeze Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Glycol Antifreeze Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Glycol Antifreeze Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Glycol Antifreeze Demand (2021-2032)
- 2.2 World Glycol Antifreeze Consumption by Region
 - 2.2.1 World Glycol Antifreeze Consumption by Region (2021-2026)
 - 2.2.2 World Glycol Antifreeze Consumption Forecast by Region (2027-2032)
- 2.3 United States Glycol Antifreeze Consumption (2021-2032)
- 2.4 China Glycol Antifreeze Consumption (2021-2032)
- 2.5 Europe Glycol Antifreeze Consumption (2021-2032)
- 2.6 Japan Glycol Antifreeze Consumption (2021-2032)
- 2.7 South Korea Glycol Antifreeze Consumption (2021-2032)
- 2.8 ASEAN Glycol Antifreeze Consumption (2021-2032)
- 2.9 India Glycol Antifreeze Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Glycol Antifreeze Production Value by Manufacturer (2021-2026)

- 3.2 World Glycol Antifreeze Production by Manufacturer (2021-2026)
- 3.3 World Glycol Antifreeze Average Price by Manufacturer (2021-2026)
- 3.4 Glycol Antifreeze Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Glycol Antifreeze Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Glycol Antifreeze in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Glycol Antifreeze in 2025
- 3.6 Glycol Antifreeze Market: Overall Company Footprint Analysis
 - 3.6.1 Glycol Antifreeze Market: Region Footprint
 - 3.6.2 Glycol Antifreeze Market: Company Product Type Footprint
 - 3.6.3 Glycol Antifreeze Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Glycol Antifreeze Production Value Comparison
 - 4.1.1 United States VS China: Glycol Antifreeze Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Glycol Antifreeze Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Glycol Antifreeze Production Comparison
 - 4.2.1 United States VS China: Glycol Antifreeze Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Glycol Antifreeze Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Glycol Antifreeze Consumption Comparison
 - 4.3.1 United States VS China: Glycol Antifreeze Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Glycol Antifreeze Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Glycol Antifreeze Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Glycol Antifreeze Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Glycol Antifreeze Production Value

(2021-2026)

4.4.3 United States Based Manufacturers Glycol Antifreeze Production (2021-2026)

4.5 China Based Glycol Antifreeze Manufacturers and Market Share

4.5.1 China Based Glycol Antifreeze Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Glycol Antifreeze Production Value (2021-2026)

4.5.3 China Based Manufacturers Glycol Antifreeze Production (2021-2026)

4.6 Rest of World Based Glycol Antifreeze Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Glycol Antifreeze Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Glycol Antifreeze Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Glycol Antifreeze Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Glycol Antifreeze Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Concentrates

5.2.2 Premixes

5.3 Market Segment by Type

5.3.1 World Glycol Antifreeze Production by Type (2021-2032)

5.3.2 World Glycol Antifreeze Production Value by Type (2021-2032)

5.3.3 World Glycol Antifreeze Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY ADDITIVE TECHNOLOGY

6.1 World Glycol Antifreeze Market Size Overview by Additive Technology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Additive Technology

6.2.1 Inorganic Acid Technology (IAT)

6.2.2 Organic Acid Technology (OAT)

6.2.3 Mixed Organic Acid Technology (HOAT)

6.3 Market Segment by Additive Technology

6.3.1 World Glycol Antifreeze Production by Additive Technology (2021-2032)

6.3.2 World Glycol Antifreeze Production Value by Additive Technology (2021-2032)

6.3.3 World Glycol Antifreeze Average Price by Additive Technology (2021-2032)

7 MARKET ANALYSIS BY SALES CHANNEL

7.1 World Glycol Antifreeze Market Size Overview by Sales Channel: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Sales Channel

7.2.1 OEM

7.2.2 Aftermarket

7.3 Market Segment by Sales Channel

7.3.1 World Glycol Antifreeze Production by Sales Channel (2021-2032)

7.3.2 World Glycol Antifreeze Production Value by Sales Channel (2021-2032)

7.3.3 World Glycol Antifreeze Average Price by Sales Channel (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Glycol Antifreeze Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive

8.2.2 Industrial

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Glycol Antifreeze Production by Application (2021-2032)

8.3.2 World Glycol Antifreeze Production Value by Application (2021-2032)

8.3.3 World Glycol Antifreeze Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Prestone

9.1.1 Prestone Details

9.1.2 Prestone Major Business

9.1.3 Prestone Glycol Antifreeze Product and Services

9.1.4 Prestone Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Prestone Recent Developments/Updates

9.1.6 Prestone Competitive Strengths & Weaknesses

9.2 Shell

9.2.1 Shell Details

9.2.2 Shell Major Business

9.2.3 Shell Glycol Antifreeze Product and Services

9.2.4 Shell Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share

(2021-2026)

9.2.5 Shell Recent Developments/Updates

9.2.6 Shell Competitive Strengths & Weaknesses

9.3 Exxon Mobil

9.3.1 Exxon Mobil Details

9.3.2 Exxon Mobil Major Business

9.3.3 Exxon Mobil Glycol Antifreeze Product and Services

9.3.4 Exxon Mobil Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Exxon Mobil Recent Developments/Updates

9.3.6 Exxon Mobil Competitive Strengths & Weaknesses

9.4 Castrol

9.4.1 Castrol Details

9.4.2 Castrol Major Business

9.4.3 Castrol Glycol Antifreeze Product and Services

9.4.4 Castrol Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Castrol Recent Developments/Updates

9.4.6 Castrol Competitive Strengths & Weaknesses

9.5 TotalEnergies

9.5.1 TotalEnergies Details

9.5.2 TotalEnergies Major Business

9.5.3 TotalEnergies Glycol Antifreeze Product and Services

9.5.4 TotalEnergies Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 TotalEnergies Recent Developments/Updates

9.5.6 TotalEnergies Competitive Strengths & Weaknesses

9.6 CCI Corporation

9.6.1 CCI Corporation Details

9.6.2 CCI Corporation Major Business

9.6.3 CCI Corporation Glycol Antifreeze Product and Services

9.6.4 CCI Corporation Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 CCI Corporation Recent Developments/Updates

9.6.6 CCI Corporation Competitive Strengths & Weaknesses

9.7 BASF

9.7.1 BASF Details

9.7.2 BASF Major Business

9.7.3 BASF Glycol Antifreeze Product and Services

9.7.4 BASF Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 BASF Recent Developments/Updates

9.7.6 BASF Competitive Strengths & Weaknesses

9.8 Chevron

9.8.1 Chevron Details

9.8.2 Chevron Major Business

9.8.3 Chevron Glycol Antifreeze Product and Services

9.8.4 Chevron Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Chevron Recent Developments/Updates

9.8.6 Chevron Competitive Strengths & Weaknesses

9.9 FUCHS

9.9.1 FUCHS Details

9.9.2 FUCHS Major Business

9.9.3 FUCHS Glycol Antifreeze Product and Services

9.9.4 FUCHS Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 FUCHS Recent Developments/Updates

9.9.6 FUCHS Competitive Strengths & Weaknesses

9.10 Old World Industries

9.10.1 Old World Industries Details

9.10.2 Old World Industries Major Business

9.10.3 Old World Industries Glycol Antifreeze Product and Services

9.10.4 Old World Industries Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Old World Industries Recent Developments/Updates

9.10.6 Old World Industries Competitive Strengths & Weaknesses

9.11 Valvoline

9.11.1 Valvoline Details

9.11.2 Valvoline Major Business

9.11.3 Valvoline Glycol Antifreeze Product and Services

9.11.4 Valvoline Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Valvoline Recent Developments/Updates

9.11.6 Valvoline Competitive Strengths & Weaknesses

9.12 Sinopec

9.12.1 Sinopec Details

9.12.2 Sinopec Major Business

- 9.12.3 Sinopec Glycol Antifreeze Product and Services
- 9.12.4 Sinopec Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Sinopec Recent Developments/Updates
- 9.12.6 Sinopec Competitive Strengths & Weaknesses
- 9.13 CNPC
 - 9.13.1 CNPC Details
 - 9.13.2 CNPC Major Business
 - 9.13.3 CNPC Glycol Antifreeze Product and Services
 - 9.13.4 CNPC Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 CNPC Recent Developments/Updates
 - 9.13.6 CNPC Competitive Strengths & Weaknesses
- 9.14 China-TEEC
 - 9.14.1 China-TEEC Details
 - 9.14.2 China-TEEC Major Business
 - 9.14.3 China-TEEC Glycol Antifreeze Product and Services
 - 9.14.4 China-TEEC Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 China-TEEC Recent Developments/Updates
 - 9.14.6 China-TEEC Competitive Strengths & Weaknesses
- 9.15 Guangdong Delian
 - 9.15.1 Guangdong Delian Details
 - 9.15.2 Guangdong Delian Major Business
 - 9.15.3 Guangdong Delian Glycol Antifreeze Product and Services
 - 9.15.4 Guangdong Delian Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Guangdong Delian Recent Developments/Updates
 - 9.15.6 Guangdong Delian Competitive Strengths & Weaknesses
- 9.16 KEMITEC
 - 9.16.1 KEMITEC Details
 - 9.16.2 KEMITEC Major Business
 - 9.16.3 KEMITEC Glycol Antifreeze Product and Services
 - 9.16.4 KEMITEC Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 KEMITEC Recent Developments/Updates
 - 9.16.6 KEMITEC Competitive Strengths & Weaknesses
- 9.17 Kost USA
 - 9.17.1 Kost USA Details

- 9.17.2 Kost USA Major Business
- 9.17.3 Kost USA Glycol Antifreeze Product and Services
- 9.17.4 Kost USA Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.17.5 Kost USA Recent Developments/Updates
- 9.17.6 Kost USA Competitive Strengths & Weaknesses
- 9.18 Amsoil
 - 9.18.1 Amsoil Details
 - 9.18.2 Amsoil Major Business
 - 9.18.3 Amsoil Glycol Antifreeze Product and Services
 - 9.18.4 Amsoil Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Amsoil Recent Developments/Updates
 - 9.18.6 Amsoil Competitive Strengths & Weaknesses
- 9.19 Recochem
 - 9.19.1 Recochem Details
 - 9.19.2 Recochem Major Business
 - 9.19.3 Recochem Glycol Antifreeze Product and Services
 - 9.19.4 Recochem Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Recochem Recent Developments/Updates
 - 9.19.6 Recochem Competitive Strengths & Weaknesses
- 9.20 Gulf Oil International
 - 9.20.1 Gulf Oil International Details
 - 9.20.2 Gulf Oil International Major Business
 - 9.20.3 Gulf Oil International Glycol Antifreeze Product and Services
 - 9.20.4 Gulf Oil International Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 Gulf Oil International Recent Developments/Updates
 - 9.20.6 Gulf Oil International Competitive Strengths & Weaknesses
- 9.21 Paras Lubricants
 - 9.21.1 Paras Lubricants Details
 - 9.21.2 Paras Lubricants Major Business
 - 9.21.3 Paras Lubricants Glycol Antifreeze Product and Services
 - 9.21.4 Paras Lubricants Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.21.5 Paras Lubricants Recent Developments/Updates
 - 9.21.6 Paras Lubricants Competitive Strengths & Weaknesses
- 9.22 Solar Applied Materials

- 9.22.1 Solar Applied Materials Details
- 9.22.2 Solar Applied Materials Major Business
- 9.22.3 Solar Applied Materials Glycol Antifreeze Product and Services
- 9.22.4 Solar Applied Materials Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.22.5 Solar Applied Materials Recent Developments/Updates
- 9.22.6 Solar Applied Materials Competitive Strengths & Weaknesses
- 9.23 Evans Cooling Systems
 - 9.23.1 Evans Cooling Systems Details
 - 9.23.2 Evans Cooling Systems Major Business
 - 9.23.3 Evans Cooling Systems Glycol Antifreeze Product and Services
 - 9.23.4 Evans Cooling Systems Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.23.5 Evans Cooling Systems Recent Developments/Updates
 - 9.23.6 Evans Cooling Systems Competitive Strengths & Weaknesses
- 9.24 ABRO Industries
 - 9.24.1 ABRO Industries Details
 - 9.24.2 ABRO Industries Major Business
 - 9.24.3 ABRO Industries Glycol Antifreeze Product and Services
 - 9.24.4 ABRO Industries Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.24.5 ABRO Industries Recent Developments/Updates
 - 9.24.6 ABRO Industries Competitive Strengths & Weaknesses
- 9.25 Jiangsu Lopal Tech.
 - 9.25.1 Jiangsu Lopal Tech. Details
 - 9.25.2 Jiangsu Lopal Tech. Major Business
 - 9.25.3 Jiangsu Lopal Tech. Glycol Antifreeze Product and Services
 - 9.25.4 Jiangsu Lopal Tech. Glycol Antifreeze Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.25.5 Jiangsu Lopal Tech. Recent Developments/Updates
 - 9.25.6 Jiangsu Lopal Tech. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Glycol Antifreeze Industry Chain
- 10.2 Glycol Antifreeze Upstream Analysis
 - 10.2.1 Glycol Antifreeze Core Raw Materials
 - 10.2.2 Main Manufacturers of Glycol Antifreeze Core Raw Materials
- 10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Glycol Antifreeze Production Mode

10.6 Glycol Antifreeze Procurement Model

10.7 Glycol Antifreeze Industry Sales Model and Sales Channels

10.7.1 Glycol Antifreeze Sales Model

10.7.2 Glycol Antifreeze Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Glycol Antifreeze Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Glycol Antifreeze Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Glycol Antifreeze Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Glycol Antifreeze Production Value Market Share by Region (2021-2026)
- Table 5. World Glycol Antifreeze Production Value Market Share by Region (2027-2032)
- Table 6. World Glycol Antifreeze Production by Region (2021-2026) & (Kilotons)
- Table 7. World Glycol Antifreeze Production by Region (2027-2032) & (Kilotons)
- Table 8. World Glycol Antifreeze Production Market Share by Region (2021-2026)
- Table 9. World Glycol Antifreeze Production Market Share by Region (2027-2032)
- Table 10. World Glycol Antifreeze Average Price by Region (2021-2026) & (US\$/Ton)
- Table 11. World Glycol Antifreeze Average Price by Region (2027-2032) & (US\$/Ton)
- Table 12. Glycol Antifreeze Major Market Trends
- Table 13. World Glycol Antifreeze Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)
- Table 14. World Glycol Antifreeze Consumption by Region (2021-2026) & (Kilotons)
- Table 15. World Glycol Antifreeze Consumption Forecast by Region (2027-2032) & (Kilotons)
- Table 16. World Glycol Antifreeze Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Glycol Antifreeze Producers in 2025
- Table 18. World Glycol Antifreeze Production by Manufacturer (2021-2026) & (Kilotons)
- Table 19. Production Market Share of Key Glycol Antifreeze Producers in 2025
- Table 20. World Glycol Antifreeze Average Price by Manufacturer (2021-2026) & (US\$/Ton)
- Table 21. Global Glycol Antifreeze Company Evaluation Quadrant
- Table 22. World Glycol Antifreeze Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Glycol Antifreeze Production Site of Key Manufacturer
- Table 24. Glycol Antifreeze Market: Company Product Type Footprint
- Table 25. Glycol Antifreeze Market: Company Product Application Footprint

- Table 26. Glycol Antifreeze Competitive Factors
- Table 27. Glycol Antifreeze New Entrant and Capacity Expansion Plans
- Table 28. Glycol Antifreeze Mergers & Acquisitions Activity
- Table 29. United States VS China Glycol Antifreeze Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Glycol Antifreeze Production Comparison, (2021 & 2025 & 2032) & (Kilotons)
- Table 31. United States VS China Glycol Antifreeze Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)
- Table 32. United States Based Glycol Antifreeze Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Glycol Antifreeze Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers Glycol Antifreeze Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers Glycol Antifreeze Production (2021-2026) & (Kilotons)
- Table 36. United States Based Manufacturers Glycol Antifreeze Production Market Share (2021-2026)
- Table 37. China Based Glycol Antifreeze Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Glycol Antifreeze Production Value, (2021-2026) & (USD Million)
- Table 39. China Based Manufacturers Glycol Antifreeze Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Glycol Antifreeze Production, (2021-2026) & (Kilotons)
- Table 41. China Based Manufacturers Glycol Antifreeze Production Market Share (2021-2026)
- Table 42. Rest of World Based Glycol Antifreeze Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Glycol Antifreeze Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Glycol Antifreeze Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Glycol Antifreeze Production, (2021-2026) & (Kilotons)
- Table 46. Rest of World Based Manufacturers Glycol Antifreeze Production Market Share (2021-2026)

Table 47. World Glycol Antifreeze Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Glycol Antifreeze Production by Type (2021-2026) & (Kilotons)

Table 49. World Glycol Antifreeze Production by Type (2027-2032) & (Kilotons)

Table 50. World Glycol Antifreeze Production Value by Type (2021-2026) & (USD Million)

Table 51. World Glycol Antifreeze Production Value by Type (2027-2032) & (USD Million)

Table 52. World Glycol Antifreeze Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Glycol Antifreeze Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Glycol Antifreeze Production Value by Additive Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World Glycol Antifreeze Production by Additive Technology (2021-2026) & (Kilotons)

Table 56. World Glycol Antifreeze Production by Additive Technology (2027-2032) & (Kilotons)

Table 57. World Glycol Antifreeze Production Value by Additive Technology (2021-2026) & (USD Million)

Table 58. World Glycol Antifreeze Production Value by Additive Technology (2027-2032) & (USD Million)

Table 59. World Glycol Antifreeze Average Price by Additive Technology (2021-2026) & (US\$/Ton)

Table 60. World Glycol Antifreeze Average Price by Additive Technology (2027-2032) & (US\$/Ton)

Table 61. World Glycol Antifreeze Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032

Table 62. World Glycol Antifreeze Production by Sales Channel (2021-2026) & (Kilotons)

Table 63. World Glycol Antifreeze Production by Sales Channel (2027-2032) & (Kilotons)

Table 64. World Glycol Antifreeze Production Value by Sales Channel (2021-2026) & (USD Million)

Table 65. World Glycol Antifreeze Production Value by Sales Channel (2027-2032) & (USD Million)

Table 66. World Glycol Antifreeze Average Price by Sales Channel (2021-2026) & (US\$/Ton)

Table 67. World Glycol Antifreeze Average Price by Sales Channel (2027-2032) & (US\$/Ton)

Table 68. World Glycol Antifreeze Production Value by Application, (USD Million), 2021

& 2025 & 2032

Table 69. World Glycol Antifreeze Production by Application (2021-2026) & (Kilotons)

Table 70. World Glycol Antifreeze Production by Application (2027-2032) & (Kilotons)

Table 71. World Glycol Antifreeze Production Value by Application (2021-2026) & (USD Million)

Table 72. World Glycol Antifreeze Production Value by Application (2027-2032) & (USD Million)

Table 73. World Glycol Antifreeze Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Glycol Antifreeze Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Prestone Basic Information, Manufacturing Base and Competitors

Table 76. Prestone Major Business

Table 77. Prestone Glycol Antifreeze Product and Services

Table 78. Prestone Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Prestone Recent Developments/Updates

Table 80. Prestone Competitive Strengths & Weaknesses

Table 81. Shell Basic Information, Manufacturing Base and Competitors

Table 82. Shell Major Business

Table 83. Shell Glycol Antifreeze Product and Services

Table 84. Shell Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Shell Recent Developments/Updates

Table 86. Shell Competitive Strengths & Weaknesses

Table 87. Exxon Mobil Basic Information, Manufacturing Base and Competitors

Table 88. Exxon Mobil Major Business

Table 89. Exxon Mobil Glycol Antifreeze Product and Services

Table 90. Exxon Mobil Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Exxon Mobil Recent Developments/Updates

Table 92. Exxon Mobil Competitive Strengths & Weaknesses

Table 93. Castrol Basic Information, Manufacturing Base and Competitors

Table 94. Castrol Major Business

Table 95. Castrol Glycol Antifreeze Product and Services

Table 96. Castrol Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Castrol Recent Developments/Updates

Table 98. Castrol Competitive Strengths & Weaknesses

- Table 99. TotalEnergies Basic Information, Manufacturing Base and Competitors
- Table 100. TotalEnergies Major Business
- Table 101. TotalEnergies Glycol Antifreeze Product and Services
- Table 102. TotalEnergies Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. TotalEnergies Recent Developments/Updates
- Table 104. TotalEnergies Competitive Strengths & Weaknesses
- Table 105. CCI Corporation Basic Information, Manufacturing Base and Competitors
- Table 106. CCI Corporation Major Business
- Table 107. CCI Corporation Glycol Antifreeze Product and Services
- Table 108. CCI Corporation Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. CCI Corporation Recent Developments/Updates
- Table 110. CCI Corporation Competitive Strengths & Weaknesses
- Table 111. BASF Basic Information, Manufacturing Base and Competitors
- Table 112. BASF Major Business
- Table 113. BASF Glycol Antifreeze Product and Services
- Table 114. BASF Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. BASF Recent Developments/Updates
- Table 116. BASF Competitive Strengths & Weaknesses
- Table 117. Chevron Basic Information, Manufacturing Base and Competitors
- Table 118. Chevron Major Business
- Table 119. Chevron Glycol Antifreeze Product and Services
- Table 120. Chevron Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Chevron Recent Developments/Updates
- Table 122. Chevron Competitive Strengths & Weaknesses
- Table 123. FUCHS Basic Information, Manufacturing Base and Competitors
- Table 124. FUCHS Major Business
- Table 125. FUCHS Glycol Antifreeze Product and Services
- Table 126. FUCHS Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. FUCHS Recent Developments/Updates
- Table 128. FUCHS Competitive Strengths & Weaknesses
- Table 129. Old World Industries Basic Information, Manufacturing Base and Competitors
- Table 130. Old World Industries Major Business
- Table 131. Old World Industries Glycol Antifreeze Product and Services

Table 132. Old World Industries Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Old World Industries Recent Developments/Updates

Table 134. Old World Industries Competitive Strengths & Weaknesses

Table 135. Valvoline Basic Information, Manufacturing Base and Competitors

Table 136. Valvoline Major Business

Table 137. Valvoline Glycol Antifreeze Product and Services

Table 138. Valvoline Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Valvoline Recent Developments/Updates

Table 140. Valvoline Competitive Strengths & Weaknesses

Table 141. Sinopec Basic Information, Manufacturing Base and Competitors

Table 142. Sinopec Major Business

Table 143. Sinopec Glycol Antifreeze Product and Services

Table 144. Sinopec Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Sinopec Recent Developments/Updates

Table 146. Sinopec Competitive Strengths & Weaknesses

Table 147. CNPC Basic Information, Manufacturing Base and Competitors

Table 148. CNPC Major Business

Table 149. CNPC Glycol Antifreeze Product and Services

Table 150. CNPC Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. CNPC Recent Developments/Updates

Table 152. CNPC Competitive Strengths & Weaknesses

Table 153. China-TEEC Basic Information, Manufacturing Base and Competitors

Table 154. China-TEEC Major Business

Table 155. China-TEEC Glycol Antifreeze Product and Services

Table 156. China-TEEC Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. China-TEEC Recent Developments/Updates

Table 158. China-TEEC Competitive Strengths & Weaknesses

Table 159. Guangdong Delian Basic Information, Manufacturing Base and Competitors

Table 160. Guangdong Delian Major Business

Table 161. Guangdong Delian Glycol Antifreeze Product and Services

Table 162. Guangdong Delian Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Guangdong Delian Recent Developments/Updates

- Table 164. Guangdong Delian Competitive Strengths & Weaknesses
- Table 165. KEMITEC Basic Information, Manufacturing Base and Competitors
- Table 166. KEMITEC Major Business
- Table 167. KEMITEC Glycol Antifreeze Product and Services
- Table 168. KEMITEC Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. KEMITEC Recent Developments/Updates
- Table 170. KEMITEC Competitive Strengths & Weaknesses
- Table 171. Kost USA Basic Information, Manufacturing Base and Competitors
- Table 172. Kost USA Major Business
- Table 173. Kost USA Glycol Antifreeze Product and Services
- Table 174. Kost USA Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Kost USA Recent Developments/Updates
- Table 176. Kost USA Competitive Strengths & Weaknesses
- Table 177. Amsoil Basic Information, Manufacturing Base and Competitors
- Table 178. Amsoil Major Business
- Table 179. Amsoil Glycol Antifreeze Product and Services
- Table 180. Amsoil Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 181. Amsoil Recent Developments/Updates
- Table 182. Amsoil Competitive Strengths & Weaknesses
- Table 183. Recochem Basic Information, Manufacturing Base and Competitors
- Table 184. Recochem Major Business
- Table 185. Recochem Glycol Antifreeze Product and Services
- Table 186. Recochem Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 187. Recochem Recent Developments/Updates
- Table 188. Recochem Competitive Strengths & Weaknesses
- Table 189. Gulf Oil International Basic Information, Manufacturing Base and Competitors
- Table 190. Gulf Oil International Major Business
- Table 191. Gulf Oil International Glycol Antifreeze Product and Services
- Table 192. Gulf Oil International Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 193. Gulf Oil International Recent Developments/Updates
- Table 194. Gulf Oil International Competitive Strengths & Weaknesses
- Table 195. Paras Lubricants Basic Information, Manufacturing Base and Competitors

- Table 196. Paras Lubricants Major Business
- Table 197. Paras Lubricants Glycol Antifreeze Product and Services
- Table 198. Paras Lubricants Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 199. Paras Lubricants Recent Developments/Updates
- Table 200. Paras Lubricants Competitive Strengths & Weaknesses
- Table 201. Solar Applied Materials Basic Information, Manufacturing Base and Competitors
- Table 202. Solar Applied Materials Major Business
- Table 203. Solar Applied Materials Glycol Antifreeze Product and Services
- Table 204. Solar Applied Materials Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 205. Solar Applied Materials Recent Developments/Updates
- Table 206. Solar Applied Materials Competitive Strengths & Weaknesses
- Table 207. Evans Cooling Systems Basic Information, Manufacturing Base and Competitors
- Table 208. Evans Cooling Systems Major Business
- Table 209. Evans Cooling Systems Glycol Antifreeze Product and Services
- Table 210. Evans Cooling Systems Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 211. Evans Cooling Systems Recent Developments/Updates
- Table 212. Evans Cooling Systems Competitive Strengths & Weaknesses
- Table 213. ABRO Industries Basic Information, Manufacturing Base and Competitors
- Table 214. ABRO Industries Major Business
- Table 215. ABRO Industries Glycol Antifreeze Product and Services
- Table 216. ABRO Industries Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 217. ABRO Industries Recent Developments/Updates
- Table 218. ABRO Industries Competitive Strengths & Weaknesses
- Table 219. Jiangsu Lopal Tech. Basic Information, Manufacturing Base and Competitors
- Table 220. Jiangsu Lopal Tech. Major Business
- Table 221. Jiangsu Lopal Tech. Glycol Antifreeze Product and Services
- Table 222. Jiangsu Lopal Tech. Glycol Antifreeze Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 223. Jiangsu Lopal Tech. Recent Developments/Updates

Table 224. Jiangsu Lopal Tech. Competitive Strengths & Weaknesses

Table 225. Global Key Players of Glycol Antifreeze Upstream (Raw Materials)

Table 226. Global Glycol Antifreeze Typical Customers

Table 227. Glycol Antifreeze Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Glycol Antifreeze Picture

Figure 2. World Glycol Antifreeze Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Glycol Antifreeze Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Glycol Antifreeze Production (2021-2032) & (Kilotons)

Figure 5. World Glycol Antifreeze Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Glycol Antifreeze Production Value Market Share by Region (2021-2032)

Figure 7. World Glycol Antifreeze Production Market Share by Region (2021-2032)

Figure 8. North America Glycol Antifreeze Production (2021-2032) & (Kilotons)

Figure 9. Europe Glycol Antifreeze Production (2021-2032) & (Kilotons)

Figure 10. China Glycol Antifreeze Production (2021-2032) & (Kilotons)

Figure 11. Japan Glycol Antifreeze Production (2021-2032) & (Kilotons)

Figure 12. Glycol Antifreeze Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Glycol Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 15. World Glycol Antifreeze Consumption Market Share by Region (2021-2032)

Figure 16. United States Glycol Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 17. China Glycol Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 18. Europe Glycol Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 19. Japan Glycol Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 20. South Korea Glycol Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 21. ASEAN Glycol Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 22. India Glycol Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 23. Producer Shipments of Glycol Antifreeze by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Glycol Antifreeze Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Glycol Antifreeze Markets in 2025

Figure 26. United States VS China: Glycol Antifreeze Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Glycol Antifreeze Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Glycol Antifreeze Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Glycol Antifreeze Production Market Share 2025

Figure 30. China Based Manufacturers Glycol Antifreeze Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Glycol Antifreeze Production Market Share 2025

Figure 32. World Glycol Antifreeze Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Glycol Antifreeze Production Value Market Share by Type in 2025

Figure 34. Concentrates

Figure 35. Premixes

Figure 36. World Glycol Antifreeze Production Market Share by Type (2021-2032)

Figure 37. World Glycol Antifreeze Production Value Market Share by Type (2021-2032)

Figure 38. World Glycol Antifreeze Average Price by Type (2021-2032) & (US\$/Ton)

Figure 39. World Glycol Antifreeze Production Value by Additive Technology, (USD Million), 2021 & 2025 & 2032

Figure 40. World Glycol Antifreeze Production Value Market Share by Additive Technology in 2025

Figure 41. Inorganic Acid Technology (IAT)

Figure 42. Organic Acid Technology (OAT)

Figure 43. Mixed Organic Acid Technology (HOAT)

Figure 44. World Glycol Antifreeze Production Market Share by Additive Technology (2021-2032)

Figure 45. World Glycol Antifreeze Production Value Market Share by Additive Technology (2021-2032)

Figure 46. World Glycol Antifreeze Average Price by Additive Technology (2021-2032) & (US\$/Ton)

Figure 47. World Glycol Antifreeze Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032

Figure 48. World Glycol Antifreeze Production Value Market Share by Sales Channel in 2025

Figure 49. OEM

Figure 50. Aftermarket

Figure 51. World Glycol Antifreeze Production Market Share by Sales Channel (2021-2032)

Figure 52. World Glycol Antifreeze Production Value Market Share by Sales Channel (2021-2032)

Figure 53. World Glycol Antifreeze Average Price by Sales Channel (2021-2032) & (US\$/Ton)

Figure 54. World Glycol Antifreeze Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Glycol Antifreeze Production Value Market Share by Application in 2025

Figure 56. Automotive

Figure 57. Industrial

Figure 58. Others

Figure 59. World Glycol Antifreeze Production Market Share by Application (2021-2032)

Figure 60. World Glycol Antifreeze Production Value Market Share by Application (2021-2032)

Figure 61. World Glycol Antifreeze Average Price by Application (2021-2032) & (US\$/Ton)

Figure 62. Glycol Antifreeze Industry Chain

Figure 63. Glycol Antifreeze Procurement Model

Figure 64. Glycol Antifreeze Sales Model

Figure 65. Glycol Antifreeze Sales Channels, Direct Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

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