

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

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Abstracts

The global Automotive Antifreeze market size is expected to reach \$ 9757 million by 2032, rising at a market growth of 2.8% CAGR during the forecast period (2026-2032).

Automotive antifreeze, also known as engine coolant, is a critical heat-transfer fluid in an internal-combustion engine's circulating cooling system. It is typically formulated from a freezing-point depressant base (e.g., ethylene glycol, propylene glycol, or glycerin) blended with additive packages such as corrosion inhibitors, defoamers, dyes, and biocides. Circulating through the engine and broader thermal-management loop, it removes heat, suppresses boiling and freezing, and provides protection against corrosion, cavitation, scaling, and foaming, while also offering limited lubrication?thereby directly affecting stable engine operation within the normal temperature range and overall service life.

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

In 2025, global automotive antifreeze production reached approximately 10 million tons, with an average global market price is \$800 per ton.

Automotive antifreeze is effectively the coolant product line, covering both ICE engine coolant and thermal-management fluids used in hybrid and electrified powertrains. Its core function is year-round temperature control and system protection. In addition to freeze protection at low temperatures, it must also provide boil-over protection and

stable heat transfer under high thermal load, while suppressing corrosion and deposits over time to protect aluminum, mixed-metal systems, seals, and water pumps.

Demand is shaped by two main drivers. One is the installed base and routine maintenance cycle. ICE and hybrid vehicles create recurring replacement and top-up demand, especially in hot climates, congested driving conditions, extended idling, and high-load use, where cooling-system stability becomes more critical. The other is electrification-driven thermal complexity. Batteries, e-motors, and power electronics operate within tighter temperature windows, and the increasing use of multi-loop architectures is pushing coolant selection toward broader compatibility across materials and subsystems.

Three market trends are especially visible. First, extended-life and lower-maintenance positioning is gaining importance, as users and service channels prefer longer drain intervals and more stable long-term protection. Second, delivery is shifting toward premixed formats, since premix reduces field mixing errors and variability caused by water quality, making it better suited to quick-service networks, fleets, and standardized maintenance environments. Third, product identification is moving away from color-based distinctions toward chemistry family and vehicle-specific compatibility requirements, because color is not a reliable indicator of formulation and misuse risks are becoming more widely recognized.

Application segmentation is most clearly understood by end-use scenario. Passenger and light vehicles are mainly driven by engine-cooling and HVAC-related applications, where the focus is on stable performance, durability, and channel availability. Commercial and heavy-duty vehicles are more sensitive to lifecycle cost and downtime, which makes extended-life programs and standardized maintenance systems more attractive. Electrified applications place greater weight on material compatibility, long-term stability, and system-level consistency, particularly in multi-loop thermal-management architectures.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Antifreeze Market, Segmentation by Type:

Ethylene Glycol

Propylene Glycol

Other

Global Automotive Antifreeze Market, Segmentation by Additive Technology:

Inorganic Acid Technology (IAT)

Organic Acid Technology (OAT)

Mixed Organic Acid Technology (HOAT)

Global Automotive Antifreeze Market, Segmentation by Sales Channel:

OEM

Aftermarket

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Automotive Antifreeze Production Value by Manufacturer (2021-2026)
- 3.2 World Automotive Antifreeze Production by Manufacturer (2021-2026)
- 3.3 World Automotive Antifreeze Average Price by Manufacturer (2021-2026)
- 3.4 Automotive Antifreeze Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Automotive Antifreeze Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Automotive Antifreeze in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Automotive Antifreeze in 2025
- 3.6 Automotive Antifreeze Market: Overall Company Footprint Analysis
 - 3.6.1 Automotive Antifreeze Market: Region Footprint
 - 3.6.2 Automotive Antifreeze Market: Company Product Type Footprint
 - 3.6.3 Automotive 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: Automotive Antifreeze Production Value Comparison
 - 4.1.1 United States VS China: Automotive Antifreeze Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Automotive Antifreeze Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Automotive Antifreeze Production Comparison
 - 4.2.1 United States VS China: Automotive Antifreeze Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Automotive Antifreeze Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Automotive Antifreeze Consumption Comparison
 - 4.3.1 United States VS China: Automotive Antifreeze Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Automotive Antifreeze Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Automotive Antifreeze Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Automotive Antifreeze Manufacturers, Headquarters and

Production Site (States, Country)

4.4.2 United States Based Manufacturers Automotive Antifreeze Production Value (2021-2026)

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

4.5 China Based Automotive Antifreeze Manufacturers and Market Share

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

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

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

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

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

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

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

5 MARKET ANALYSIS BY TYPE

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

5.2 Segment Introduction by Type

5.2.1 Ethylene Glycol

5.2.2 Propylene Glycol

5.2.3 Other

5.3 Market Segment by Type

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

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

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

6 MARKET ANALYSIS BY ADDITIVE TECHNOLOGY

6.1 World Automotive 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 Automotive Antifreeze Production by Additive Technology (2021-2032)

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

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

7 MARKET ANALYSIS BY SALES CHANNEL

7.1 World Automotive 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 Automotive Antifreeze Production by Sales Channel (2021-2032)

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

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

8 MARKET ANALYSIS BY APPLICATION

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

8.2 Segment Introduction by Application

8.2.1 Passenger Car

8.2.2 Commercial Vehicle

8.3 Market Segment by Application

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

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

8.3.3 World Automotive 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 Automotive Antifreeze Product and Services

9.1.4 Prestone Automotive 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 Automotive Antifreeze Product and Services

9.2.4 Shell Automotive 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 Automotive Antifreeze Product and Services

9.3.4 Exxon Mobil Automotive 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 Automotive Antifreeze Product and Services

9.4.4 Castrol Automotive 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 Automotive Antifreeze Product and Services

9.5.4 TotalEnergies Automotive 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 Automotive Antifreeze Product and Services

9.6.4 CCI Corporation Automotive 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 Automotive Antifreeze Product and Services

9.7.4 BASF Automotive 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 Automotive Antifreeze Product and Services

9.8.4 Chevron Automotive 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 Automotive Antifreeze Product and Services

9.9.4 FUCHS Automotive 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 Automotive Antifreeze Product and Services

9.10.4 Old World Industries Automotive 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 Automotive Antifreeze Product and Services
- 9.11.4 Valvoline Automotive 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 Automotive Antifreeze Product and Services
 - 9.12.4 Sinopec Automotive 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 Automotive Antifreeze Product and Services
 - 9.13.4 CNPC Automotive 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 Automotive Antifreeze Product and Services
 - 9.14.4 China-TEEC Automotive 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 Automotive Antifreeze Product and Services
 - 9.15.4 Guangdong Delian Automotive 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 Automotive Antifreeze Product and Services
- 9.16.4 KEMITEC Automotive 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 Automotive Antifreeze Product and Services
 - 9.17.4 Kost USA Automotive 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 Automotive Antifreeze Product and Services
 - 9.18.4 Amsoil Automotive 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 Automotive Antifreeze Product and Services
 - 9.19.4 Recochem Automotive 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 Automotive Antifreeze Product and Services
 - 9.20.4 Gulf Oil International Automotive 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 Automotive Antifreeze Product and Services
- 9.21.4 Paras Lubricants Automotive 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 Automotive Antifreeze Product and Services
 - 9.22.4 Solar Applied Materials Automotive 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 Automotive Antifreeze Product and Services
 - 9.23.4 Evans Cooling Systems Automotive 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 Automotive Antifreeze Product and Services
 - 9.24.4 ABRO Industries Automotive 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. Automotive Antifreeze Product and Services
 - 9.25.4 Jiangsu Lopal Tech. Automotive 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 Automotive Antifreeze Industry Chain
- 10.2 Automotive Antifreeze Upstream Analysis
 - 10.2.1 Automotive Antifreeze Core Raw Materials
 - 10.2.2 Main Manufacturers of Automotive Antifreeze Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Automotive Antifreeze Production Mode
- 10.6 Automotive Antifreeze Procurement Model
- 10.7 Automotive Antifreeze Industry Sales Model and Sales Channels
 - 10.7.1 Automotive Antifreeze Sales Model
 - 10.7.2 Automotive 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 Automotive Antifreeze Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Automotive Antifreeze Production Value by Region (2021-2026) & (USD Million)

Table 3. World Automotive Antifreeze Production Value by Region (2027-2032) & (USD Million)

Table 4. World Automotive Antifreeze Production Value Market Share by Region (2021-2026)

Table 5. World Automotive Antifreeze Production Value Market Share by Region (2027-2032)

Table 6. World Automotive Antifreeze Production by Region (2021-2026) & (Kilotons)

Table 7. World Automotive Antifreeze Production by Region (2027-2032) & (Kilotons)

Table 8. World Automotive Antifreeze Production Market Share by Region (2021-2026)

Table 9. World Automotive Antifreeze Production Market Share by Region (2027-2032)

Table 10. World Automotive Antifreeze Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Automotive Antifreeze Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Automotive Antifreeze Major Market Trends

Table 13. World Automotive Antifreeze Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Automotive Antifreeze Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Automotive Antifreeze Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Automotive Antifreeze Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Automotive Antifreeze Producers in 2025

Table 18. World Automotive Antifreeze Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Automotive Antifreeze Producers in 2025

Table 20. World Automotive Antifreeze Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Automotive Antifreeze Company Evaluation Quadrant

Table 22. World Automotive Antifreeze Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Automotive Antifreeze Production Site of Key Manufacturer

Table 24. Automotive Antifreeze Market: Company Product Type Footprint

Table 25. Automotive Antifreeze Market: Company Product Application Footprint

Table 26. Automotive Antifreeze Competitive Factors

Table 27. Automotive Antifreeze New Entrant and Capacity Expansion Plans

Table 28. Automotive Antifreeze Mergers & Acquisitions Activity

Table 29. United States VS China Automotive Antifreeze Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Automotive Antifreeze Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Automotive Antifreeze Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Automotive Antifreeze Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Automotive Antifreeze Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Automotive Antifreeze Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Automotive Antifreeze Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Automotive Antifreeze Production Market Share (2021-2026)

Table 37. China Based Automotive Antifreeze Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Automotive Antifreeze Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Automotive Antifreeze Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Automotive Antifreeze Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Automotive Antifreeze Production Market Share (2021-2026)

Table 42. Rest of World Based Automotive Antifreeze Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Automotive Antifreeze Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Automotive Antifreeze Production Value

Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Automotive Antifreeze Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Automotive Antifreeze Production Market Share (2021-2026)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 68. World Automotive Antifreeze Production Value by Application, (USD Million), 2021 & 2025 & 2032

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

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

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

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

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

Table 74. World Automotive 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 Automotive Antifreeze Product and Services

Table 78. Prestone Automotive 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 Automotive Antifreeze Product and Services

Table 84. Shell Automotive 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 Automotive Antifreeze Product and Services

Table 90. Exxon Mobil Automotive 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 Automotive Antifreeze Product and Services
- Table 96. Castrol Automotive 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 Automotive Antifreeze Product and Services
- Table 102. TotalEnergies Automotive 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 Automotive Antifreeze Product and Services
- Table 108. CCI Corporation Automotive 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 Automotive Antifreeze Product and Services
- Table 114. BASF Automotive 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 Automotive Antifreeze Product and Services
- Table 120. Chevron Automotive 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 Automotive Antifreeze Product and Services
- Table 126. FUCHS Automotive 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 Automotive Antifreeze Product and Services
- Table 132. Old World Industries Automotive 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 Automotive Antifreeze Product and Services
- Table 138. Valvoline Automotive 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 Automotive Antifreeze Product and Services
- Table 144. Sinopec Automotive 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 Automotive Antifreeze Product and Services
- Table 150. CNPC Automotive 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 Automotive Antifreeze Product and Services

Table 156. China-TEEC Automotive 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 Automotive Antifreeze Product and Services

Table 162. Guangdong Delian Automotive 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 Automotive Antifreeze Product and Services

Table 168. KEMITEC Automotive 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 Automotive Antifreeze Product and Services

Table 174. Kost USA Automotive 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 Automotive Antifreeze Product and Services

Table 180. Amsoil Automotive 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 Automotive Antifreeze Product and Services

Table 186. Recochem Automotive 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 Automotive Antifreeze Product and Services
- Table 192. Gulf Oil International Automotive 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 Automotive Antifreeze Product and Services
- Table 198. Paras Lubricants Automotive 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 Automotive Antifreeze Product and Services
- Table 204. Solar Applied Materials Automotive 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 Automotive Antifreeze Product and Services
- Table 210. Evans Cooling Systems Automotive 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 Automotive Antifreeze Product and Services

Table 216. ABRO Industries Automotive 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. Automotive Antifreeze Product and Services

Table 222. Jiangsu Lopal Tech. Automotive 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 Automotive Antifreeze Upstream (Raw Materials)

Table 226. Global Automotive Antifreeze Typical Customers

Table 227. Automotive Antifreeze Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Automotive Antifreeze Picture

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

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

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

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

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

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

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

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

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

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

Figure 12. India Automotive Antifreeze Production (2021-2032) & (Kilotons)

Figure 13. Automotive Antifreeze Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Automotive Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 16. World Automotive Antifreeze Consumption Market Share by Region (2021-2032)

Figure 17. United States Automotive Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 18. China Automotive Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 19. Europe Automotive Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 20. Japan Automotive Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 21. South Korea Automotive Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 22. ASEAN Automotive Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 23. India Automotive Antifreeze Consumption (2021-2032) & (Kilotons)

Figure 24. Producer Shipments of Automotive Antifreeze by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Automotive Antifreeze Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Automotive Antifreeze Markets in 2025

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

Figure 28. United States VS China: Automotive Antifreeze Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Automotive Antifreeze Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Automotive Antifreeze Production Market Share 2025

Figure 31. China Based Manufacturers Automotive Antifreeze Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Automotive Antifreeze Production Market Share 2025

Figure 33. World Automotive Antifreeze Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Automotive Antifreeze Production Value Market Share by Type in 2025

Figure 35. Ethylene Glycol

Figure 36. Propylene Glycol

Figure 37. Other

Figure 38. World Automotive Antifreeze Production Market Share by Type (2021-2032)

Figure 39. World Automotive Antifreeze Production Value Market Share by Type (2021-2032)

Figure 40. World Automotive Antifreeze Average Price by Type (2021-2032) & (US\$/Ton)

Figure 41. World Automotive Antifreeze Production Value by Additive Technology, (USD Million), 2021 & 2025 & 2032

Figure 42. World Automotive Antifreeze Production Value Market Share by Additive Technology in 2025

Figure 43. Inorganic Acid Technology (IAT)

Figure 44. Organic Acid Technology (OAT)

Figure 45. Mixed Organic Acid Technology (HOAT)

Figure 46. World Automotive Antifreeze Production Market Share by Additive Technology (2021-2032)

Figure 47. World Automotive Antifreeze Production Value Market Share by Additive Technology (2021-2032)

Figure 48. World Automotive Antifreeze Average Price by Additive Technology (2021-2032) & (US\$/Ton)

Figure 49. World Automotive Antifreeze Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032

Figure 50. World Automotive Antifreeze Production Value Market Share by Sales Channel in 2025

Figure 51. OEM

Figure 52. Aftermarket

Figure 53. World Automotive Antifreeze Production Market Share by Sales Channel (2021-2032)

Figure 54. World Automotive Antifreeze Production Value Market Share by Sales Channel (2021-2032)

Figure 55. World Automotive Antifreeze Average Price by Sales Channel (2021-2032) & (US\$/Ton)

Figure 56. World Automotive Antifreeze Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Automotive Antifreeze Production Value Market Share by Application in 2025

Figure 58. Passenger Car

Figure 59. Commercial Vehicle

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

Figure 61. World Automotive Antifreeze Production Value Market Share by Application (2021-2032)

Figure 62. World Automotive Antifreeze Average Price by Application (2021-2032) & (US\$/Ton)

Figure 63. Automotive Antifreeze Industry Chain

Figure 64. Automotive Antifreeze Procurement Model

Figure 65. Automotive Antifreeze Sales Model

Figure 66. Automotive Antifreeze Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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