

Global Glass Fiber and GFRP Composites Market Size Study, by Type (General-Purpose Glass Fibers, Special-Purpose Glass Fibers) by Application (Building and Construction, Electronics, Transportation, Others) and Regional Forecasts 2022-2032

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Abstracts

The global Glass Fiber and Glass Fiber Reinforced Polymer (GFRP) composites market, valued at approximately USD 38.58 billion in 2023, is poised for a steady growth trajectory, anticipating a compound annual growth rate (CAGR) of 3.15% over the forecast period from 2024 to 2032. Glass fibers, renowned for their exceptional strength-to-weight ratio, have become integral to various industries, offering durability and versatility. When embedded within polymer matrices to form GFRP composites, they provide enhanced mechanical properties, making them indispensable in applications ranging from construction to transportation.

The escalating demand for lightweight and high-strength materials in sectors such as automotive, aerospace, and construction is a significant driver propelling the GFRP composites market. Manufacturers are increasingly adopting these composites to improve fuel efficiency and reduce emissions by replacing traditional materials like steel and aluminum. For instance, in the automotive industry, the integration of GFRP components has led to notable weight reductions, enhancing vehicle performance and sustainability.

Technological advancements in manufacturing processes have further bolstered the adoption of GFRP composites. Innovations such as automated fiber placement and advanced resin transfer molding have streamlined production, reducing costs and

expanding the applicability of these materials. Additionally, the growing emphasis on sustainability has led to the development of eco-friendly composites, aligning with global environmental goals and enhancing market appeal.

Regionally, Asia-Pacific has emerged as a dominant force in the GFRP composites market, accounting for nearly half of the global revenue in 2022. This growth is attributed to rapid industrialization, infrastructure development, and increased investments in renewable energy projects within the region. Countries like China and India are at the forefront, leveraging GFRP composites in construction and automotive sectors to meet the demands of their expanding economies.

In North America, the market is experiencing substantial growth, driven by the aerospace and defense sectors' increasing reliance on lightweight, durable materials. The region's focus on technological innovation and sustainability has further accelerated the adoption of GFRP composites across various applications.

Major market players included in this report are:

Owens Corning

Jushi Group

PPG Industries, Inc.

AGY Holding Corporation

Compagnie de Saint-Gobain S.A.

Asahi Fiber Glass Co., Ltd.

Nippon Sheet Glass Co., Ltd.

Polycomp International Corporation

Chomarat Group

Nitto Boseki Co., Ltd.

Mitsubishi Chemical Corporation

Hexcel Corporation

Toray Industries, Inc.

Solvay S.A.

Teijin Limited

The detailed segments and sub-segment of the market are explained below:

By Type:

General-Purpose Glass Fibers

Special-Purpose Glass Fibers

By Application:

Building and Construction

Electronics

Transportation

Others

By Region:

North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America:

Brazil

Mexico

Middle East & Africa:

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market estimates & forecasts spanning 10 years (2022-2032).

Detailed revenue breakdowns with regional-level insights for all market segments.

Comprehensive geographical assessment, including country-level dynamics.

Competitive landscape analysis featuring key players and their strategic initiatives.

Evaluation of emerging trends and expert recommendations for market participants.

Examination of demand-supply factors influencing market growth.

Contents

CHAPTER 1. GLOBAL GLASS FIBER AND GFRP COMPOSITES MARKET EXECUTIVE SUMMARY

- 1.1. Global Glass Fiber and GFRP Composites Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Type
 - 1.3.2. By Application
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL GLASS FIBER AND GFRP COMPOSITES MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory Frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL GLASS FIBER AND GFRP COMPOSITES MARKET DYNAMICS

3.1. Market Drivers

3.1.1. Increasing Demand for Lightweight and High-Strength Materials in Automotive, Aerospace, and Construction

3.1.2. Technological Advancements in Manufacturing Processes

3.1.3. Growing Emphasis on Sustainability and Eco-friendly Production

3.2. Market Challenges

3.2.1. High Production Costs and Complex Manufacturing Processes

3.2.2. Stringent Regulatory Frameworks and Compliance Requirements

3.2.3. Fluctuations in Raw Material Prices

3.3. Market Opportunities

3.3.1. Expanding Applications in Emerging Markets

3.3.2. Investment in R&D and Advanced Production Technologies

3.3.3. Collaborative Ventures and Strategic Partnerships

CHAPTER 4. GLOBAL GLASS FIBER AND GFRP COMPOSITES MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

4.1.1. Bargaining Power of Suppliers

4.1.2. Bargaining Power of Buyers

4.1.3. Threat of New Entrants

4.1.4. Threat of Substitutes

4.1.5. Competitive Rivalry

4.1.6. Futuristic Approach to Porter's 5 Force Model

4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

4.2.1. Political

4.2.2. Economical

4.2.3. Social

4.2.4. Technological

4.2.5. Environmental

4.2.6. Legal

4.3. Top Investment Opportunity

4.4. Top Winning Strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL GLASS FIBER AND GFRP COMPOSITES MARKET SIZE & FORECASTS BY TYPE 2022-2032

5.1. Segment Dashboard

5.2. Global Glass Fiber and GFRP Composites Market: By Type Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

5.2.1. General-Purpose Glass Fibers

5.2.2. Special-Purpose Glass Fibers

5.2.3. Others

CHAPTER 6. GLOBAL GLASS FIBER AND GFRP COMPOSITES MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

6.1. Segment Dashboard

6.2. Global Glass Fiber and GFRP Composites Market: By Application Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

6.2.1. Building and Construction

6.2.2. Electronics

6.2.3. Transportation

6.2.4. Others

CHAPTER 7. GLOBAL GLASS FIBER AND GFRP COMPOSITES MARKET SIZE & FORECASTS BY REGION 2022-2032

7.1. North America Market

7.1.1. U.S. Market

7.1.1.1. By Type Breakdown Size & Forecasts, 2022-2032

7.1.1.2. By Application Breakdown Size & Forecasts, 2022-2032

7.1.2. Canada Market

7.2. Europe Market

7.2.1. U.K. Market

7.2.2. Germany Market

7.2.3. France Market

7.2.4. Spain Market

7.2.5. Italy Market

7.2.6. Rest of Europe Market

7.3. Asia-Pacific Market

7.3.1. China Market

7.3.2. India Market

- 7.3.3. Japan Market
- 7.3.4. Australia Market
- 7.3.5. South Korea Market
- 7.3.6. Rest of Asia-Pacific Market
- 7.4. Latin America Market
 - 7.4.1. Brazil Market
 - 7.4.2. Mexico Market
 - 7.4.3. Rest of Latin America Market
- 7.5. Middle East & Africa Market
 - 7.5.1. Saudi Arabia Market
 - 7.5.2. South Africa Market
 - 7.5.3. Rest of Middle East & Africa Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

- 8.1. Key Company SWOT Analysis
 - 8.1.1. [Company 1 Name]
 - 8.1.2. [Company 2 Name]
 - 8.1.3. [Company 3 Name]
- 8.2. Top Market Strategies
- 8.3. Company Profiles
 - 8.3.1. [Company 1 Name]
 - 8.3.1.1. Key Information
 - 8.3.1.2. Overview
 - 8.3.1.3. Financial (Subject to Data Availability)
 - 8.3.1.4. Product Summary
 - 8.3.1.5. Market Strategies
 - 8.3.2. [Company 2 Name]
 - 8.3.3. [Company 3 Name]
 - 8.3.4. [Company 4 Name]
 - 8.3.5. [Company 5 Name]
 - 8.3.6. [Company 6 Name]
 - 8.3.7. [Company 7 Name]
 - 8.3.8. [Company 8 Name]

CHAPTER 9. RESEARCH PROCESS

- 9.1. Research Process
 - 9.1.1. Data Mining

- 9.1.2. Analysis
- 9.1.3. Market Estimation
- 9.1.4. Validation
- 9.1.5. Publishing
- 9.2. Research Attributes

List Of Tables

LIST OF TABLES

- TABLE 1. Global Glass Fiber and GFRP Composites Market, Report Scope
- TABLE 2. Global Glass Fiber and GFRP Composites Market Estimates & Forecasts by Region 2022-2032 (USD Million/Billion)
- TABLE 3. Global Glass Fiber and GFRP Composites Market Estimates & Forecasts by Type 2022-2032 (USD Million/Billion)
- TABLE 4. Global Glass Fiber and GFRP Composites Market Estimates & Forecasts by Application 2022-2032 (USD Million/Billion)
- TABLE 5. Global Glass Fiber and GFRP Composites Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 6. Global Glass Fiber and GFRP Composites Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 7. Global Glass Fiber and GFRP Composites Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 8. Global Glass Fiber and GFRP Composites Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 9. Global Glass Fiber and GFRP Composites Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 10. Global Glass Fiber and GFRP Composites Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 11. Global Glass Fiber and GFRP Composites Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 12. Global Glass Fiber and GFRP Composites Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 13. Global Glass Fiber and GFRP Composites Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 14. Global Glass Fiber and GFRP Composites Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 15. U.S. Glass Fiber and GFRP Composites Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 16. U.S. Glass Fiber and GFRP Composites Market Estimates & Forecasts by Segment 2022-2032 (USD Million/Billion)
- TABLE 17. U.S. Glass Fiber and GFRP Composites Market Estimates & Forecasts by Segment 2022-2032 (USD Million/Billion)
- TABLE 18. Canada Glass Fiber and GFRP Composites Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)

TABLE 19. Canada Glass Fiber and GFRP Composites Market Estimates & Forecasts by Segment 2022-2032 (USD Million/Billion)

TABLE 20. Canada Glass Fiber and GFRP Composites Market Estimates & Forecasts by Segment 2022-2032 (USD Million/Billion)

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