

# Graphene-Enhanced GFRP Market Forecasts to 2032 – Global Analysis By GFRP Type (Thermoset GFRP and Thermoplastic GFRP), Graphene Type (Graphene Oxide (GO), Reduced Graphene Oxide (rGO), Few-Layer Graphene and Single-Layer Graphene), End User and By Geography

<https://marketpublishers.com/r/G8A84C3F921BEN.html>

Date: September 2025

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: G8A84C3F921BEN

## Abstracts

According to Statistics MRC, the Global Graphene-Enhanced GFRP Market is accounted for \$6.80 million in 2025 and is expected to reach \$34.28 million by 2032 growing at a CAGR of 26.0% during the forecast period. Graphene-enhanced Glass Fiber Reinforced Polymer (GFRP) is a cutting-edge composite material that combines the proven strength and lightweight nature of GFRP with the remarkable qualities of graphene. The addition of graphene oxide or graphene nanoparticles to the polymer matrix improves the material's mechanical properties, such as its tensile and flexural strengths and resistance to impact. Furthermore, graphene improves GFRP's electrical conductivity, barrier qualities, and thermal stability, creating prospects for a variety of multipurpose uses in the energy, automotive, aerospace, and construction industries. In addition to addressing the drawbacks of traditional GFRP, like its vulnerability to moisture absorption and microcracking, this hybrid composite also helps to extend service life and improve performance in demanding settings.

According to the National Graphene Institute, In a study published in *Frontiers in Materials*, researchers found that adding 0.15 wt.% graphene nanoplatelets to GFRP improved flexural strength by 6.8% and flexural modulus by 1.6%, demonstrating graphene's effectiveness in enhancing out-of-plane mechanical properties.

Market Dynamics:

**Driver:****Growing need for high-strength, lightweight materials**

One of the main forces behind graphene-enhanced GFRP is the global trend toward materials that are both strong and lightweight. There is growing pressure on sectors like renewable energy, automotive, marine, and aerospace to increase component lifespans, lower carbon emissions, and improve fuel efficiency. Although the strength and low weight of conventional GFRP are already appreciated, adding graphene nanoparticles improves the material's tensile strength, flexural modulus, and impact resistance. As a result, producers can use less material to achieve higher performance, which will ultimately reduce overall weight while upholding safety regulations. Moreover, the ability of graphene-enhanced GFRP to provide superior lightweight performance greatly increases its market demand as the transportation and infrastructure sectors grow globally.

**Restraint:****High graphene production costs**

One of the main obstacles preventing graphene-enhanced GFRP from being widely used is the high cost of producing graphene. Despite their increased scalability, methods such as liquid-phase exfoliation and chemical vapor deposition (CVD) are still costly and energy-intensive when compared to traditional fillers. Price-sensitive industries like mass-market automotive and construction face difficulties as a result of the final composite material being substantially more expensive than traditional GFRP. Although the performance advantages in aerospace and defense can justify the premium, wider commercialization is delayed until low-cost, high-quality graphene production techniques are developed.

**Opportunity:****Growing the wind and renewable energy sectors**

Wind power in particular offers a promising market for graphene-enhanced GFRP in the renewable energy sector. Even though conventional GFRP wind turbine blades are lightweight and durable, they still have to be maintained in harsh environments and deal with issues like fatigue and microcracking. Adding graphene to blades increases their

longevity, toughness, and resistance to cracking, which reduces lifecycle costs and boosts efficiency. Additionally, a key prerequisite for tall turbines is built-in lightning strike protection, which is made possible by graphene's electrical conductivity. The demand for stronger, longer-lasting blades is exactly in line with graphene-GFRP's benefits, which present manufacturers and energy providers with a chance to reduce costs and increase dependability as offshore and onshore wind capacity grows globally.

Threat:

#### Supply chain uncertainties for raw materials

The supply chain for graphene is still in its infancy when compared to that of conventional composite materials, which leaves it open to interruption. There are risks of supply shortages, price volatility, and inconsistent quality due to the concentration of graphene production among a small number of suppliers. Large, consistent quantities of high-grade graphene for composite applications are hard for industries to obtain because of this reliance on specialized manufacturing techniques. Costs may increase further and deter adoption if demand grows quickly without supply keeping up. Furthermore, export restrictions or geopolitical unrest in nations that produce advanced nanomaterials could cause instability in the global supply.

Covid-19 Impact:

The graphene-enhanced GFRP market experienced both new opportunities and setbacks as a result of the COVID-19 pandemic. Short-term adoption was considerably slowed by interruptions in the global supply chain, limitations on manufacturing, and decreased demand from important end-use industries like construction, automotive, and aerospace. Cost-cutting over advanced materials caused many pilot projects and R&D initiatives to be delayed. But the pandemic also increased interest in renewable energy, smart infrastructure, electric vehicles, and lightweight, sustainable, and multipurpose composites for post-crisis recovery. Moreover, the market for graphene-enhanced GFRP started to recover as economies revived and green recovery initiatives gained momentum, setting the company up for long-term success.

The thermoset GFRP segment is expected to be the largest during the forecast period

The thermoset GFRP segment is expected to account for the largest market share during the forecast period because of its extensive use in wind energy, automotive, aerospace, and construction applications. High-performance structural components are

best suited for thermoset resins like epoxy, polyester, and phenolic because of their exceptional mechanical strength, chemical resistance, and dimensional stability. Additionally, graphene reinforcement greatly increases the service life of thermoset GFRP in demanding environments by improving its tensile strength, thermal stability, and resistance to microcracking. Large-scale industrial adoption and well-established processing methods further reinforce its dominance, guaranteeing that thermoset-based graphene composites continue to be the market leader.

The reduced graphene oxide (rGO) segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the reduced graphene oxide (rGO) segment is predicted to witness the highest growth rate, motivated by its cost-effectiveness, scalability, and performance balance. In contrast to single-layer graphene, which has better qualities but is still costly to manufacture on a large scale, rGO is significantly less expensive and offers superior mechanical strength, thermal stability, and electrical conductivity. Because of its adaptability, it is ideal for use in smart infrastructure, energy storage systems, lightweight automotive parts, and aerospace components where strength and functionality are needed. Furthermore, rGO is becoming the graphene type with the fastest rate of growth in this market due to rising investments in reasonably priced nanomaterials and rising demand for multifunctional composites.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, propelled by robust manufacturing bases in nations like China, Japan, South Korea, and India, as well as quick industrialization and infrastructure development. Both graphene and glass fiber composites are produced on a large scale in the region, owing to government programs and investments in cutting-edge materials research. Adoption is further accelerated by the growing demand from the automotive, aerospace, renewable energy, and construction sectors, all of which are looking for materials that are lightweight, strong, and perform well. Asia-Pacific also has a competitive edge because it is at the forefront of affordable graphene production technologies.

Region with highest CAGR:

Over the forecast period, the North American region is anticipated to exhibit the highest CAGR, driven by substantial expenditures in cutting-edge composites, quick uptake in the military and aerospace industries, and an increasing emphasis on renewable energy

and electric cars. With large R&D projects, strong government support, and partnerships between academic institutions, start-ups, and significant industry players, the United States is at the forefront of the commercialization of graphene-based materials. Furthermore, the region's stringent emissions and fuel efficiency regulations promote the use of lightweight, high-strength composites. Through infrastructure projects and renewable energy, Canada also makes a contribution, where sustainability and longevity are crucial.

### Key players in the market

Some of the key players in Graphene-Enhanced GFRP Market include BASF SE, G6 Materials Corporation, Directa Plus Inc, Advanced Composites Inc., Tata Steel, Graphene NanoChem Inc, First Graphene Inc, Nippon Electric Glass Co., Ltd., NanoXplore Inc., Aquatic Leisure Technologies (ALT), Reliance Industries Ltd, Haydale Graphene Industries, PPG Industries Inc., Versarien plc, XG Sciences Inc and NeoGraf.

### Key Developments:

In June 2025, Haydale Graphene Industries has signed multiple distribution agreements for its JustHeat graphene-based heating system following the product's recent UL certification for North American markets. The advanced materials group has secured a non-exclusive distribution agreement with Quidos Protect Limited, a network of over 250 qualified heating engineers providing UK-wide installation coverage.

In July 2024, BASF and Graphit Kropfmuhl have entered into an innovative agreement to reduce their product carbon footprint. Under this agreement, BASF will supply renewable energy certificates to Graphit Kropfmuhl's production site in Hauzenberg, Germany. A Guarantee of Origin ("GoO") certifies that a given amount of power was produced in a particular renewable power plant, thus providing a tangible proof of the usage and source of the renewable power.

In February 2024, G6 Materials Corp is pleased to announce that it recently entered into an agreement to acquire a license from Graphene Corp. in respect of intellectual property rights associated with graphene coating technology. This strategic move reinforces G6's commitment to pushing the boundaries of advanced materials and fortifying its position as an industry pioneer.

### GFRP Types Covered:

Thermoset GFRP

Thermoplastic GFRP

Graphene Types Covered:

Graphene Oxide (GO)

Reduced Graphene Oxide (rGO)

Few-Layer Graphene

Single-Layer Graphene

End Users Covered:

Automotive

Aerospace & Defense

Electronics

Energy Storage & Generation

Building & Construction

Sports & Wearable Goods

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 End User Analysis
- 3.7 Emerging Markets
- 3.8 Impact of Covid-19

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

### **5 GLOBAL GRAPHENE-ENHANCED GFRP MARKET, BY GFRP TYPE**

- 5.1 Introduction
- 5.2 Thermoset GFRP
- 5.3 Thermoplastic GFRP

## **6 GLOBAL GRAPHENE-ENHANCED GFRP MARKET, BY GRAPHENE TYPE**

- 6.1 Introduction
- 6.2 Graphene Oxide (GO)
- 6.3 Reduced Graphene Oxide (rGO)
- 6.4 Few-Layer Graphene
- 6.5 Single-Layer Graphene

## **7 GLOBAL GRAPHENE-ENHANCED GFRP MARKET, BY END USER**

- 7.1 Introduction
- 7.2 Automotive
- 7.3 Aerospace & Defense
- 7.4 Electronics
- 7.5 Energy Storage & Generation
- 7.6 Building & Construction
- 7.7 Sports & Wearable Goods
- 7.8 Other End Users

## **8 GLOBAL GRAPHENE-ENHANCED GFRP MARKET, BY GEOGRAPHY**

- 8.1 Introduction
- 8.2 North America
  - 8.2.1 US
  - 8.2.2 Canada
  - 8.2.3 Mexico
- 8.3 Europe
  - 8.3.1 Germany
  - 8.3.2 UK
  - 8.3.3 Italy
  - 8.3.4 France
  - 8.3.5 Spain
  - 8.3.6 Rest of Europe
- 8.4 Asia Pacific

- 8.4.1 Japan
- 8.4.2 China
- 8.4.3 India
- 8.4.4 Australia
- 8.4.5 New Zealand
- 8.4.6 South Korea
- 8.4.7 Rest of Asia Pacific
- 8.5 South America
  - 8.5.1 Argentina
  - 8.5.2 Brazil
  - 8.5.3 Chile
  - 8.5.4 Rest of South America
- 8.6 Middle East & Africa
  - 8.6.1 Saudi Arabia
  - 8.6.2 UAE
  - 8.6.3 Qatar
  - 8.6.4 South Africa
  - 8.6.5 Rest of Middle East & Africa

## **9 KEY DEVELOPMENTS**

- 9.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 9.2 Acquisitions & Mergers
- 9.3 New Product Launch
- 9.4 Expansions
- 9.5 Other Key Strategies

## **10 COMPANY PROFILING**

- 10.1 BASF SE
- 10.2 G6 Materials Corporation
- 10.3 Directa Plus Inc
- 10.4 Advanced Composites Inc.
- 10.5 Tata Steel
- 10.6 Graphene NanoChem Inc
- 10.7 First Graphene Inc
- 10.8 Nippon Electric Glass Co., Ltd.
- 10.9 NanoXplore Inc.
- 10.10 Aquatic Leisure Technologies (ALT)

- 10.11 Reliance Industries Ltd
- 10.12 Haydale Graphene Industries
- 10.13 PPG Industries Inc.
- 10.14 Versarien plc
- 10.15 XG Sciences Inc
- 10.16 NeoGraf

## List Of Tables

### LIST OF TABLES

Table 1 Global Graphene-Enhanced GFRP Market Outlook, By Region (2024-2032) (\$MN)

Table 2 Global Graphene-Enhanced GFRP Market Outlook, By GFRP Type (2024-2032) (\$MN)

Table 3 Global Graphene-Enhanced GFRP Market Outlook, By Thermoset GFRP (2024-2032) (\$MN)

Table 4 Global Graphene-Enhanced GFRP Market Outlook, By Thermoplastic GFRP (2024-2032) (\$MN)

Table 5 Global Graphene-Enhanced GFRP Market Outlook, By Graphene Type (2024-2032) (\$MN)

Table 6 Global Graphene-Enhanced GFRP Market Outlook, By Graphene Oxide (GO) (2024-2032) (\$MN)

Table 7 Global Graphene-Enhanced GFRP Market Outlook, By Reduced Graphene Oxide (rGO) (2024-2032) (\$MN)

Table 8 Global Graphene-Enhanced GFRP Market Outlook, By Few-Layer Graphene (2024-2032) (\$MN)

Table 9 Global Graphene-Enhanced GFRP Market Outlook, By Single-Layer Graphene (2024-2032) (\$MN)

Table 10 Global Graphene-Enhanced GFRP Market Outlook, By End User (2024-2032) (\$MN)

Table 11 Global Graphene-Enhanced GFRP Market Outlook, By Automotive (2024-2032) (\$MN)

Table 12 Global Graphene-Enhanced GFRP Market Outlook, By Aerospace & Defense (2024-2032) (\$MN)

Table 13 Global Graphene-Enhanced GFRP Market Outlook, By Electronics (2024-2032) (\$MN)

Table 14 Global Graphene-Enhanced GFRP Market Outlook, By Energy Storage & Generation (2024-2032) (\$MN)

Table 15 Global Graphene-Enhanced GFRP Market Outlook, By Building & Construction (2024-2032) (\$MN)

Table 16 Global Graphene-Enhanced GFRP Market Outlook, By Sports & Wearable Goods (2024-2032) (\$MN)

Table 17 Global Graphene-Enhanced GFRP Market Outlook, By Other End Users (2024-2032) (\$MN)

Table 18 North America Graphene-Enhanced GFRP Market Outlook, By Country

(2024-2032) (\$MN)

Table 19 North America Graphene-Enhanced GFRP Market Outlook, By GFRP Type (2024-2032) (\$MN)

Table 20 North America Graphene-Enhanced GFRP Market Outlook, By Thermoset GFRP (2024-2032) (\$MN)

Table 21 North America Graphene-Enhanced GFRP Market Outlook, By Thermoplastic GFRP (2024-2032) (\$MN)

Table 22 North America Graphene-Enhanced GFRP Market Outlook, By Graphene Type (2024-2032) (\$MN)

Table 23 North America Graphene-Enhanced GFRP Market Outlook, By Graphene Oxide (GO) (2024-2032) (\$MN)

Table 24 North America Graphene-Enhanced GFRP Market Outlook, By Reduced Graphene Oxide (rGO) (2024-2032) (\$MN)

Table 25 North America Graphene-Enhanced GFRP Market Outlook, By Few-Layer Graphene (2024-2032) (\$MN)

Table 26 North America Graphene-Enhanced GFRP Market Outlook, By Single-Layer Graphene (2024-2032) (\$MN)

Table 27 North America Graphene-Enhanced GFRP Market Outlook, By End User (2024-2032) (\$MN)

Table 28 North America Graphene-Enhanced GFRP Market Outlook, By Automotive (2024-2032) (\$MN)

Table 29 North America Graphene-Enhanced GFRP Market Outlook, By Aerospace & Defense (2024-2032) (\$MN)

Table 30 North America Graphene-Enhanced GFRP Market Outlook, By Electronics (2024-2032) (\$MN)

Table 31 North America Graphene-Enhanced GFRP Market Outlook, By Energy Storage & Generation (2024-2032) (\$MN)

Table 32 North America Graphene-Enhanced GFRP Market Outlook, By Building & Construction (2024-2032) (\$MN)

Table 33 North America Graphene-Enhanced GFRP Market Outlook, By Sports & Wearable Goods (2024-2032) (\$MN)

Table 34 North America Graphene-Enhanced GFRP Market Outlook, By Other End Users (2024-2032) (\$MN)

Table 35 Europe Graphene-Enhanced GFRP Market Outlook, By Country (2024-2032) (\$MN)

Table 36 Europe Graphene-Enhanced GFRP Market Outlook, By GFRP Type (2024-2032) (\$MN)

Table 37 Europe Graphene-Enhanced GFRP Market Outlook, By Thermoset GFRP (2024-2032) (\$MN)

- Table 38 Europe Graphene-Enhanced GFRP Market Outlook, By Thermoplastic GFRP (2024-2032) (\$MN)
- Table 39 Europe Graphene-Enhanced GFRP Market Outlook, By Graphene Type (2024-2032) (\$MN)
- Table 40 Europe Graphene-Enhanced GFRP Market Outlook, By Graphene Oxide (GO) (2024-2032) (\$MN)
- Table 41 Europe Graphene-Enhanced GFRP Market Outlook, By Reduced Graphene Oxide (rGO) (2024-2032) (\$MN)
- Table 42 Europe Graphene-Enhanced GFRP Market Outlook, By Few-Layer Graphene (2024-2032) (\$MN)
- Table 43 Europe Graphene-Enhanced GFRP Market Outlook, By Single-Layer Graphene (2024-2032) (\$MN)
- Table 44 Europe Graphene-Enhanced GFRP Market Outlook, By End User (2024-2032) (\$MN)
- Table 45 Europe Graphene-Enhanced GFRP Market Outlook, By Automotive (2024-2032) (\$MN)
- Table 46 Europe Graphene-Enhanced GFRP Market Outlook, By Aerospace & Defense (2024-2032) (\$MN)
- Table 47 Europe Graphene-Enhanced GFRP Market Outlook, By Electronics (2024-2032) (\$MN)
- Table 48 Europe Graphene-Enhanced GFRP Market Outlook, By Energy Storage & Generation (2024-2032) (\$MN)
- Table 49 Europe Graphene-Enhanced GFRP Market Outlook, By Building & Construction (2024-2032) (\$MN)
- Table 50 Europe Graphene-Enhanced GFRP Market Outlook, By Sports & Wearable Goods (2024-2032) (\$MN)
- Table 51 Europe Graphene-Enhanced GFRP Market Outlook, By Other End Users (2024-2032) (\$MN)
- Table 52 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By Country (2024-2032) (\$MN)
- Table 53 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By GFRP Type (2024-2032) (\$MN)
- Table 54 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By Thermoset GFRP (2024-2032) (\$MN)
- Table 55 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By Thermoplastic GFRP (2024-2032) (\$MN)
- Table 56 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By Graphene Type (2024-2032) (\$MN)
- Table 57 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By Graphene Oxide

(GO) (2024-2032) (\$MN)

Table 58 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By Reduced Graphene Oxide (rGO) (2024-2032) (\$MN)

Table 59 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By Few-Layer Graphene (2024-2032) (\$MN)

Table 60 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By Single-Layer Graphene (2024-2032) (\$MN)

Table 61 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By End User (2024-2032) (\$MN)

Table 62 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By Automotive (2024-2032) (\$MN)

Table 63 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By Aerospace & Defense (2024-2032) (\$MN)

Table 64 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By Electronics (2024-2032) (\$MN)

Table 65 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By Energy Storage & Generation (2024-2032) (\$MN)

Table 66 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By Building & Construction (2024-2032) (\$MN)

Table 67 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By Sports & Wearable Goods (2024-2032) (\$MN)

Table 68 Asia Pacific Graphene-Enhanced GFRP Market Outlook, By Other End Users (2024-2032) (\$MN)

Table 69 South America Graphene-Enhanced GFRP Market Outlook, By Country (2024-2032) (\$MN)

Table 70 South America Graphene-Enhanced GFRP Market Outlook, By GFRP Type (2024-2032) (\$MN)

Table 71 South America Graphene-Enhanced GFRP Market Outlook, By Thermoset GFRP (2024-2032) (\$MN)

Table 72 South America Graphene-Enhanced GFRP Market Outlook, By Thermoplastic GFRP (2024-2032) (\$MN)

Table 73 South America Graphene-Enhanced GFRP Market Outlook, By Graphene Type (2024-2032) (\$MN)

Table 74 South America Graphene-Enhanced GFRP Market Outlook, By Graphene Oxide (GO) (2024-2032) (\$MN)

Table 75 South America Graphene-Enhanced GFRP Market Outlook, By Reduced Graphene Oxide (rGO) (2024-2032) (\$MN)

Table 76 South America Graphene-Enhanced GFRP Market Outlook, By Few-Layer Graphene (2024-2032) (\$MN)

Table 77 South America Graphene-Enhanced GFRP Market Outlook, By Single-Layer Graphene (2024-2032) (\$MN)

Table 78 South America Graphene-Enhanced GFRP Market Outlook, By End User (2024-2032) (\$MN)

Table 79 South America Graphene-Enhanced GFRP Market Outlook, By Automotive (2024-2032) (\$MN)

Table 80 South America Graphene-Enhanced GFRP Market Outlook, By Aerospace & Defense (2024-2032) (\$MN)

Table 81 South America Graphene-Enhanced GFRP Market Outlook, By Electronics (2024-2032) (\$MN)

Table 82 South America Graphene-Enhanced GFRP Market Outlook, By Energy Storage & Generation (2024-2032) (\$MN)

Table 83 South America Graphene-Enhanced GFRP Market Outlook, By Building & Construction (2024-2032) (\$MN)

Table 84 South America Graphene-Enhanced GFRP Market Outlook, By Sports & Wearable Goods (2024-2032) (\$MN)

Table 85 South America Graphene-Enhanced GFRP Market Outlook, By Other End Users (2024-2032) (\$MN)

Table 86 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By Country (2024-2032) (\$MN)

Table 87 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By GFRP Type (2024-2032) (\$MN)

Table 88 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By Thermoset GFRP (2024-2032) (\$MN)

Table 89 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By Thermoplastic GFRP (2024-2032) (\$MN)

Table 90 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By Graphene Type (2024-2032) (\$MN)

Table 91 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By Graphene Oxide (GO) (2024-2032) (\$MN)

Table 92 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By Reduced Graphene Oxide (rGO) (2024-2032) (\$MN)

Table 93 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By Few-Layer Graphene (2024-2032) (\$MN)

Table 94 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By Single-Layer Graphene (2024-2032) (\$MN)

Table 95 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By End User (2024-2032) (\$MN)

Table 96 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By

Automotive (2024-2032) (\$MN)

Table 97 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By Aerospace & Defense (2024-2032) (\$MN)

Table 98 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By Electronics (2024-2032) (\$MN)

Table 99 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By Energy Storage & Generation (2024-2032) (\$MN)

Table 100 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By Building & Construction (2024-2032) (\$MN)

Table 101 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By Sports & Wearable Goods (2024-2032) (\$MN)

Table 102 Middle East & Africa Graphene-Enhanced GFRP Market Outlook, By Other End Users (2024-2032) (\$MN)

## I would like to order

Product name: Graphene-Enhanced GFRP Market Forecasts to 2032 – Global Analysis By GFRP Type (Thermoset GFRP and Thermoplastic GFRP), Graphene Type (Graphene Oxide (GO), Reduced Graphene Oxide (rGO), Few-Layer Graphene and Single-Layer Graphene), End User and By Geography

Product link: <https://marketpublishers.com/r/G8A84C3F921BEN.html>

Price: US\$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G8A84C3F921BEN.html>