

Global Graphene-Enhanced Composites Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Graphene-Enhanced Composites market size was valued at US\$ 435 million in 2025 and is forecast to a readjusted size of US\$ 634 million by 2032 with a CAGR of 5.8% during review period.

Graphene-reinforced composites are novel materials made by combining graphene as a reinforcement with matrix materials such as polymers, metals, or ceramics. Utilizing graphene's extremely high strength, electrical conductivity, and thermal conductivity, they significantly improve the mechanical (tensile strength, modulus), thermal, and electrical properties of composite materials, finding wide applications in aerospace, lightweight automobiles, and electronic components.

Upstream focus is on graphite mineral resources and the preparation of graphene powder/films. The key lies in the large-scale production of high-quality graphene, with mainstream methods including redox methods, physical exfoliation, and chemical vapor deposition. Currently, the technological trend in 2026 is moving towards a 'graphene + natural graphite' co-production model to reduce raw material costs. Overall sales of graphene-reinforced composites are in the tens of thousands of tons, with an average ex-factory price of approximately \$48-85/kg. The industry's gross profit margin is around 30%.

The industry's driving factors primarily stem from the urgent global demand for lightweight and multifunctional materials driven by the low-carbon economy. In the aerospace and new energy vehicle sectors, the requirements for high-strength, high-toughness, and fatigue-resistant composite materials will reach their peak by 2026. Graphene-reinforced carbon fiber composites, due to their superior specific strength

and self-sensing capabilities (using the piezoresistive effect to monitor structural damage), are rapidly replacing traditional alloy components. In the electronics and power sector, with the widespread adoption of 6G communication and high-performance computing devices, the demand for graphene/plastic composites, which combine electromagnetic shielding and high thermal conductivity, is experiencing explosive growth. Furthermore, the cost reduction and efficiency improvement of graphene exfoliation technology?especially the standardization of physical-mechanical exfoliation and ultrasonic exfoliation methods?has brought the unit price of graphene down to an industrially acceptable range, greatly expanding its application boundaries in civilian fields such as wind turbine blades, anti-corrosion coatings, and sporting goods.

This report is a detailed and comprehensive analysis for global Graphene-Enhanced Composites market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Graphene-Enhanced Composites market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (USD/MT), 2021-2032

Global Graphene-Enhanced Composites market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (USD/MT), 2021-2032

Global Graphene-Enhanced Composites market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (USD/MT), 2021-2032

Global Graphene-Enhanced Composites market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (USD/MT), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for Graphene-Enhanced Composites

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

To assess competitive factors affecting the marketplace

This report profiles key players in the global Graphene-Enhanced Composites market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Directa Plus, First Graphene, NanoXplore, Black Swan Graphene, Haydale, Versarien, Thomas Swan, Zyvex Technologies, GrapheneUP, Hubron, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

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

Market segment by Type

Graphene-Enhanced Polymer Composite

Graphene-Enhanced Ceramic Composite

Graphene-Enhanced Metal Composite

Market segment by Product Form

Masterbatch

Prepreg

Other

Market segment by Morphology

Single-layer Graphene

Multi-layer Graphene

Other

Market segment by Application

Automotive

Aerospace and Defense

Consumer Electronics

Building and Construction

Sports and Leisure

Others

Major players covered

Directa Plus

First Graphene

NanoXplore

Black Swan Graphene

Haydale

Versarien

Thomas Swan

Zyvex Technologies

GrapheneUP

Hubron

Colloids

The Sixth Element

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

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

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

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

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

Chapter 1, to describe Graphene-Enhanced Composites product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Graphene-Enhanced Composites, with price, sales quantity, revenue, and global market share of Graphene-Enhanced Composites from 2021 to 2026.

Chapter 3, the Graphene-Enhanced Composites competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Graphene-Enhanced Composites breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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

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

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

Chapter 13, the key raw materials and key suppliers, and industry chain of Graphene-Enhanced Composites.

Chapter 14 and 15, to describe Graphene-Enhanced Composites sales channel, distributors, customers, research findings and conclusion.

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