

# Global Graphene-Enhanced Composites Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Graphene-Enhanced Composites market size is expected to reach \$ 634 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

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 studies the global Graphene-Enhanced Composites production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Graphene-Enhanced Composites 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 Graphene-Enhanced Composites that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Graphene-Enhanced Composites total production and demand, 2021-2032, (Tons)

Global Graphene-Enhanced Composites total production value, 2021-2032, (USD Million)

Global Graphene-Enhanced Composites production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Graphene-Enhanced Composites consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Graphene-Enhanced Composites domestic production, consumption, key domestic manufacturers and share

Global Graphene-Enhanced Composites production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Graphene-Enhanced Composites production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Graphene-Enhanced Composites production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Graphene-Enhanced Composites 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Graphene-Enhanced Composites market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (USD/MT) 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 Graphene-Enhanced Composites Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Graphene-Enhanced Composites Market, Segmentation by Type:

Graphene-Enhanced Polymer Composite

Graphene-Enhanced Ceramic Composite

Graphene-Enhanced Metal Composite

#### Global Graphene-Enhanced Composites Market, Segmentation by Product Form:

Masterbatch

Prepreg

Other

#### Global Graphene-Enhanced Composites Market, Segmentation by Morphology:

Single-layer Graphene

Multi-layer Graphene

Other

#### Global Graphene-Enhanced Composites Market, Segmentation by Application:

Automotive

Aerospace and Defense

Consumer Electronics

Building and Construction

Sports and Leisure

Others

**Companies Profiled:**

Directa Plus

First Graphene

NanoXplore

Black Swan Graphene

Haydale

Versarien

Thomas Swan

Zyvex Technologies

GrapheneUP

Hubron

Colloids

The Sixth Element

**Key Questions Answered:**

1. How big is the global Graphene-Enhanced Composites market?
2. What is the demand of the global Graphene-Enhanced Composites market?
3. What is the year over year growth of the global Graphene-Enhanced Composites market?
4. What is the production and production value of the global Graphene-Enhanced Composites market?
5. Who are the key producers in the global Graphene-Enhanced Composites market?
6. What are the growth factors driving the market demand?

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