

Global Graphene-enhanced Composites Market By
Composite Type (Graphene-enhanced Polymer
Composites, Graphene-enhanced Ceramic
Composites & Graphene-enhanced Metal
Composites), By Graphene Type (Graphene Oxide &
Graphene Nanoplatelets), By Application, By Region,
Competition, Forecast & Opportunities, 2024

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# **Abstracts**

Global graphene-enhanced composites market is forecast to grow at a CAGR of around 25% during 2019-2024. Notably, graphene is an allotrope of carbon consisting of a single layer of carbon atoms arranged in a hexagonal lattice. Graphene can be added to metals, polymers and ceramics to create composites that are conductive and resistant to heat and pressure.

Usage of graphene in enhanced composites is increasing owing to its properties to enhance the conductivity and strength of bulk materials and help create composites with superior qualities. It is mostly added with various polymers for superior lightweight materials. However, Graphene can also be added to metals and ceramics to create composites that are conductive and resistant to heat and pressure. The market of graphene in enhanced composites has been segmented into composite type, graphene type, application and region. Based on composite type, the market has been segmented into graphene-enhanced polymer composites, graphene-enhanced ceramic composites and graphene-enhanced metal composites. Markedly, graphene-enhanced polymer composites are majorly used across several applications such as polymers facilitate simple fabrication process with graphene, as compared to the other types. Additionally, polymer requires graphene in smaller amounts, compared to both metal and ceramic.



Based on graphene type, the market is categorized into graphene oxide and graphene nanoplatelets. Lastly, based on application, global graphene enhanced composites market is segmented into automotive industry, aerospace & defense, consumer electronics, sports & leisure, building & construction and others. Among these, aerospace & defense segment leads global graphene-enhanced composites market, since the segment is effectively exploiting graphene-enhanced composites for both military and civil aircraft. The use of graphene in enhanced composites in aircraft has led to improvement in the aircraft efficiency, reduction in fuel consumption and development of aircraft with less carbon emissions.

Regionally, global graphene-enhanced composites market has been segmented into North America, South America, Europe, Asia-Pacific and Middle East & Africa. Among these regions, Europe accounted for the largest market share in the market in 2018. Europe is one of the largest graphene material manufacturers and suppliers and is home to a state-of-the-art process of innovation for graphene-enhanced composites. The governments of several countries in Europe are highly supportive of the potential steps taken by the major players towards advancement of graphene-enhanced composites. Furthermore, governments are funding numerous research initiatives for the commercialization of graphene. Apart from the government funding, major players in Europe are also increasing their R&D investment to promote an early commercialization of graphene-based products.

Some of the key players operating in global graphene-enhanced composites market include, XG Sciences, Applied Graphene Materials Plc, Global Graphene Group, Graphene 3D Lab Inc., Graphene Composites Ltd., Graphene NanoChem Plc, Graphenano, Haydale Graphene Industries Plc, NanoXplore Inc., The Sixth Element (Changzhou) Materials Technology Co., Ltd., First Graphene Ltd., among others.

Years considered for this report:

Historical Years: 2014-2017

Base Year: 2018

Estimated Year: 2019

Forecast Period: 2020-2024



# Objective of the Study:

To analyze and forecast global graphene-enhanced composites market size.

To forecast global graphene-enhanced composites market based on composite type, graphene type, application and regional distribution.

To identify drivers and challenges for global graphene-enhanced composites market.

To examine competitive developments such as expansions, new product launches, mergers & acquisitions, etc., in global graphene-enhanced composites market.

To conduct pricing analysis for graphene-enhanced composites market.

To identify and analyze the profile of leading players involved in the manufacturing of graphene-enhanced composites.

Some of the leading players in global graphene-enhanced composites market are Applied Graphene Materials Plc, Global Graphene Group, Graphene 3D Lab Inc., Graphene Composites Ltd., Graphene NanoChem Plc, Graphenano, Haydale Graphene Industries Plc, NanoXplore Inc., The Sixth Element (Changzhou) Materials Technology Co., Ltd., First Graphene Ltd., among others.

TechSci Research performed both primary as well as exhaustive secondary research for this study. Initially, TechSci Research sourced a list of leading manufacturers across the globe. Subsequently, TechSci Research conducted primary research surveys with the identified companies. While interviewing, the respondents were also enquired about their competitors. Through this technique, TechSci Research could include the manufacturers which could not be identified due to the limitations of secondary research. TechSci Research analyzed the product offerings, distribution channels and presence of all major players operating in global graphene-enhanced composites market.

TechSci Research calculated global graphene-enhanced composites market size using a top-down approach, wherein data for various end-user segments was recorded and forecast for the future years. TechSci Research sourced these values from the industry.



experts and company representatives and externally validated through analyzing historical data of these product types and applications for getting an appropriate, overall market size. Various secondary sources such as company websites, news articles, press releases, company annual reports, investor presentations and financial reports were also studied by TechSci Research.

# Key Target Audience:

Graphene-enhanced composites manufacturers and suppliers

Government and other regulatory bodies

Organizations, forums and alliances related to graphene-enhanced composites

Market research and consulting firms

The study is useful in providing answers to several critical questions that are important for the industry stakeholders such as manufacturers and partners, end users, etc., besides allowing them in strategizing investments and capitalizing on market opportunities.

#### **REPORT SCOPE:**

In this report, global graphene-enhanced composites market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Market, By Composite Type:

Graphene-enhanced Polymer Composites

Graphene-enhanced Ceramic Composites

Graphene-enhanced Metal Composites

Market, By Graphene Type:

Graphene Oxide



Graphene Nanoplatelets		
Market, By Application:		
Automotive Industry		
Aerospace & Defense		
Consumer Electronics		
Sports & Leisure		
Building & Construction		
Others		
Market, By Region:		
Asia-Pacific		
China		
Japan		
India		
South Korea		
Australia		
Europe		
United Kingdom		
Italy		
Гионоо		

France



Available Customizations:

North America United States Mexico Canada South America
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Mexico Canada South America
Canada South America
South America
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Brazil
Argentina
Colombia
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South Africa
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UAE
Iran
Competitive Landscape
Company Profiles: Detailed analysis of the major companies present in global graphene enhanced composites market.

With the given market data, TechSci Research offers customizations according to a



company's specific needs. The following customization options are available for the report:

**Company Information** 

Detailed analysis and profiling of additional market players (up to five).

Profit Margin Analysis

Profit margin analysis in case of direct and indirect sales channel.



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- 2. Global Graphene Group
- 3. Graphene 3D Lab Inc.
- 4. Graphene Composites
- 5. Graphene NanoChem
- 6. Grupo Graphenano
- 7. Haydale Graphene Industries Plc
- 8. NanoXplore Inc.
- 9. The Sixth Element (Changzhou) Materials Technology Co. Ltd.
- 10. First Graphene



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