

Graphene Coating Market Size, Share & Trend Analysis Report By Product (Solvent Based, Water Based), By End-use (Electronics, Automotive, Medical), By Region, And Segment Forecasts, 2025 - 2030

<https://marketpublishers.com/r/G66C8753127FEN.html>

Date: January 2025

Pages: 100

Price: US\$ 5,950.00 (Single User License)

ID: G66C8753127FEN

Abstracts

This report can be delivered to the clients within 8 Business Days

Graphene Coating Market Growth & Trends

The global graphene coating market size is anticipated to reach USD 578.1 million by 2030, growing at a CAGR of 23.5% during the forecast period, according to a new report by Grand View Research, Inc. The increasing use of graphene coatings in the electronics and automotive industries is a key growth driver for the graphene coating industry. In electronics, graphene coatings are valued for their exceptional conductivity, durability, and heat resistance, making them ideal for applications such as touchscreens, sensors, and circuit boards. Similarly, in the automotive sector, graphene coatings are employed for their superior anti-corrosion and wear-resistant properties, enhancing vehicle lifespan and performance. As these industries continue to prioritize advanced materials to improve product functionality and durability, the demand for graphene coatings is expected to grow substantially.

Graphene coatings are gaining traction due to their environmentally friendly characteristics and potential to improve energy efficiency. With global industries increasingly focusing on sustainable practices, graphene coatings offer a non-toxic and lightweight alternative to traditional coatings while delivering superior performance. Their application in renewable energy systems, such as solar panels and energy storage devices, further supports this trend by enhancing energy conversion efficiency.

and reducing environmental impact. This alignment with sustainability goals has positioned graphene coatings as a preferred choice in various industries, driving the market growth.

Continuous advancements in research and development are significantly contributing to the market growth. Innovations in production techniques, such as chemical vapor deposition (CVD) and graphene oxide-based processes, have enabled cost-effective and scalable manufacturing of high-quality graphene coatings. These advancements have expanded the scope of graphene coatings into emerging sectors like aerospace, medical devices, and textiles. Additionally, increasing collaborations between academic institutions and industry players to develop customized graphene solutions for specific applications have further fueled the market growth by opening new opportunities and enhancing the overall adoption of graphene coatings.

Graphene Coating Market Report Highlights

Based on product, the solvent based segment accounted for the largest revenue share of 38.8% in 2024. These coatings are renowned for their superior performance characteristics, which make them highly desirable across various industries.

Based on end use, the electronics segment dominated with a market share of 11.3% in 2024. The proliferation of next-generation technologies, including 5G communication and advanced semiconductor devices, is a major factor boosting the use of graphene coatings. These technologies demand components with superior heat dissipation and electrical performance, which graphene can provide.

Asia Pacific was the dominant region for the graphene coating industry with a revenue share of 55.8% in 2024. Asia Pacific benefits from a strong focus on renewable energy and sustainability, with graphene coatings playing a key role in enhancing the efficiency and lifespan of solar panels, wind turbine components, and energy storage systems. The region's increasing emphasis on innovation is supported by government initiatives and collaborations between academic institutions and private players, fostering graphene research and commercialization.

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Information Analysis
 - 1.3.2. Market Formulation & Data Visualization
 - 1.3.3. Data Validation & Publishing
- 1.4. Research Scope and Assumptions
 - 1.4.1. List of Data Sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Snapshot
- 2.2. Segmental Outlook
- 2.3. Competitive Outlook

CHAPTER 3. MARKET VARIABLES, TRENDS, AND SCOPE

- 3.1. Global Graphene Coating Market Outlook
- 3.2. Value Chain Analysis
 - 3.2.1. Raw Material Outlook
 - 3.2.2. Manufacturing/Technology Outlook
 - 3.2.3. Sales Channel Analysis
- 3.3. Price Trend Analysis
 - 3.3.1. Factors Influencing Prices
- 3.4. Regulatory Framework
 - 3.4.1. Standards & Compliances
- 3.5. Market Dynamics
 - 3.5.1. Market Driver Analysis
 - 3.5.2. Market Restraint Analysis
 - 3.5.3. Market Challenges Analysis
 - 3.5.4. Market Opportunity Analysis
- 3.6. Porter's Five Forces Analysis
 - 3.6.1. Bargaining Power of Suppliers
 - 3.6.2. Bargaining Power of Buyers
 - 3.6.3. Threat of Substitution

- 3.6.4. Threat of New Entrants
- 3.6.5. Competitive Rivalry
- 3.7. PESTLE Analysis
 - 3.7.1. Political
 - 3.7.2. Economic
 - 3.7.3. Social Landscape
 - 3.7.4. Technology
 - 3.7.5. Environmental
 - 3.7.6. Legal

CHAPTER 4. GRAPHENE COATING MARKET: PRODUCT ESTIMATES & TREND ANALYSIS

- 4.1. Graphene Coating Market: Product Movement Analysis, 2023 & 2030
- 4.2. Solvent Based
 - 4.2.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)
- 4.3. Water Based
 - 4.3.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

CHAPTER 5. GRAPHENE COATING MARKET: END USE ESTIMATES & TREND ANALYSIS

- 5.1. Graphene Coating Market: End Use Movement Analysis, 2023 & 2030
- 5.2. Electronics
 - 5.2.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)
- 5.3. Automotive
 - 5.3.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)
- 5.4. Medical
 - 5.4.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)
- 5.5. Marine
 - 5.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)
- 5.6. Aerospace
 - 5.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)
- 5.7. Others
 - 5.7.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

CHAPTER 6. GRAPHENE COATING MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

6.1. Regional Analysis, 2023 & 2030

6.2. North America

6.2.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.2.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)
(Kilotons)

6.2.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)
(Kilotons)

6.2.4. U.S.

6.2.4.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.2.4.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)
(Kilotons)

6.2.4.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)
(Kilotons)

6.2.5. Canada

6.2.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.2.5.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)
(Kilotons)

6.2.5.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)
(Kilotons)

6.2.6. Mexico

6.2.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.2.6.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)
(Kilotons)

6.2.6.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)
(Kilotons)

6.3. Europe

6.3.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.3.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)
(Kilotons)

6.3.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)
(Kilotons)

6.3.4. Germany

6.3.4.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.3.4.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)
(Kilotons)

6.3.4.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)
(Kilotons)

6.3.5. UK

6.3.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.3.5.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)
(Kilotons)

6.3.5.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)
(Kilotons)

6.3.6. France

6.3.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.3.6.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)
(Kilotons)

6.3.6.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)
(Kilotons)

6.4. Asia Pacific

6.4.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.4.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)
(Kilotons)

6.4.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)
(Kilotons)

6.4.4. China

6.4.4.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.4.4.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)
(Kilotons)

6.4.4.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)
(Kilotons)

6.4.5. India

6.4.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.4.5.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)
(Kilotons)

6.4.5.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)
(Kilotons)

6.4.6. Japan

6.4.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.4.6.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)
(Kilotons)

6.4.6.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)
(Kilotons)

6.5. Latin America

6.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.5.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)
(Kilotons)

6.5.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)

(Kilotons)

6.5.4. Brazil

6.5.4.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.5.4.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)

(Kilotons)

6.5.4.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)

(Kilotons)

6.5.5. Argentina

6.5.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.5.5.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)

(Kilotons)

6.5.5.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)

(Kilotons)

6.6. Middle East & Africa

6.6.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.6.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)

(Kilotons)

6.6.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)

(Kilotons)

6.6.4. Saudi Arabia

6.6.4.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.6.4.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)

(Kilotons)

6.6.4.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)

(Kilotons)

6.6.5. South Africa

6.6.5.1. Market estimates and forecasts, 2018 - 2030 (USD Million) (Kilotons)

6.6.5.2. Market estimates and forecasts, by product, 2018 - 2030 (USD Million)

(Kilotons)

6.6.5.3. Market estimates and forecasts, by end use, 2018 - 2030 (USD Million)

(Kilotons)

CHAPTER 7. COMPETITIVE LANDSCAPE

7.1. Recent Developments By Key Market Participants

7.2. Company Categorization

7.3. Company Market Positioning Analysis, 2024

7.4. Vendor Landscape

7.4.1. List of Key Distributors & Channel Partners

7.4.2. List of End Use

7.5. Strategy Mapping

7.6. Company Profiles/Listing

7.6.1. Applied Graphene Materials

7.6.1.1. Company Overview

7.6.1.2. Financial Performance

7.6.1.3. Form Benchmarking

7.6.2. 2D Carbon Graphene Material Co. Ltd.

7.6.2.1. Company Overview

7.6.2.2. Financial Performance

7.6.2.3. Form Benchmarking

7.6.3. Thomas Swan & Co. Ltd.

7.6.3.1. Company Overview

7.6.3.2. Financial Performance

7.6.3.3. Form Benchmarking

7.6.4. SA Graphene Laboratories, Inc.

7.6.4.1. Company Overview

7.6.4.2. Financial Performance

7.6.4.3. Form Benchmarking

7.6.5. Graphensic AB

7.6.5.1. Company Overview

7.6.5.2. Financial Performance

7.6.5.3. Form Benchmarking

7.6.6. GRAPHENE SQUARE INC

7.6.6.1. Company Overview

7.6.6.2. Financial Performance

7.6.6.3. Form Benchmarking

7.6.7. AMO GmbH

7.6.7.1. Company Overview

7.6.7.2. Financial Performance

7.6.7.3. Form Benchmarking

7.6.8. Talga Group

7.6.8.1. Company Overview

7.6.8.2. Financial Performance

7.6.8.3. Form Benchmarking

7.6.9. ACS Material

7.6.9.1. Company Overview

7.6.9.2. Financial Performance

7.6.9.3. Form Benchmarking

- 7.6.10. BGT Materials Limited, Ltd.
 - 7.6.10.1. Company Overview
 - 7.6.10.2. Financial Performance
 - 7.6.10.3. Form Benchmarking
- 7.6.11. CVD Equipment Corporation
 - 7.6.11.1. Company Overview
 - 7.6.11.2. Financial Performance
 - 7.6.11.3. Form Benchmarking
- 7.6.12. Directa Plus S.p.A.
 - 7.6.12.1. Company Overview
 - 7.6.12.2. Financial Performance
 - 7.6.12.3. Form Benchmarking
- 7.6.13. Grafoid Inc
 - 7.6.13.1. Company Overview
 - 7.6.13.2. Financial Performance
 - 7.6.13.3. Form Benchmarking
- 7.6.14. Graphenea
 - 7.6.14.1. Company Overview
 - 7.6.14.2. Financial Performance
 - 7.6.14.3. Form Benchmarking
- 7.6.15. NanoXplore Inc.
 - 7.6.15.1. Company Overview
 - 7.6.15.2. Financial Performance
 - 7.6.15.3. Form Benchmarking
- 7.6.16. HAYDALE GRAPHENE INDUSTRIES PLC
 - 7.6.16.1. Company Overview
 - 7.6.16.2. Financial Performance
 - 7.6.16.3. Form Benchmarking

I would like to order

Product name: Graphene Coating Market Size, Share & Trend Analysis Report By Product (Solvent Based, Water Based), By End-use (Electronics, Automotive, Medical), By Region, And Segment Forecasts, 2025 - 2030

Product link: <https://marketpublishers.com/r/G66C8753127FEN.html>

Price: US\$ 5,950.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G66C8753127FEN.html>