

Graphene - A Global Market Overview

Market Report | 2023-01-13 | 252 pages | Industry Experts

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Report description:

Report Synopsis

Graphene, an allotrope of carbon, comprises a monolayer of atoms arranged in a two-dimensional (2D) honeycomb lattice nanostructure. Promoted as a "wonder material," there have been several studies undertaken across the globe in various disciplines to fully exploit the material's potential. Owing to these efforts, graphene has been identified as a crucial material in the realms of aerospace & defense, automotive, chemical, electronics & telecommunication, energy harvesting and medical & healthcare.

Growth in Graphene demand shows variation on a region-to-region basis. For instance, while Aerospace & Defense is the fastest growing area for the material in North America, Electronics & Telecommunication leads the European and Asia-Pacific for Graphene. The versatility of Graphene and its current and potential applications in various industries would play a critical role in expanding its wider use. Overall global market for Graphene is estimated at US\$155 million in 2022 and projected to grow by a robust 27.4% during the period 2022-2027.

Research Findings & Coverage

- Graphene global market is explored in this report with respect to product types, key applications and end-use industry sectors
- The study extensively analyzes each product type and key applications of Graphene in all major regions for the analysis period
- Development of First Textile Electrode Enabled by Graphene
- Copper Nanowires Coated with Graphene Enhance Flexible Electronics
- Magnetized Graphene Offers Potential to Increase Data Storage Capacity to Unimaginable Levels
- Graphene Oxide-Based Hybrid Nanopolymers Enhance Bearing Performance
- G+BOARD Aims to Radically Transform the Automotive Industry's Future
- Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments
- Major companies profiled - 26
- The industry guide includes the contact details for 190 companies

Product Outline

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The report analyzes the market for key product types of Graphene including:

- Few-Layer Graphene
- Graphene Nanoplatelets
- Graphene Oxide
- Mono- & Bi-Layer Graphene

The market for application areas of Graphene analyzed comprise the following:

- Composites
- Electrical & Electronics
- Energy Storage & Harvesting
- Medical & Healthcare
- Paints, Coatings & Inks
- Other

End-use industry market analysis for Graphene provided in this report includes the following:

- Aerospace & Defense
- Automotive
- Chemical
- Electronics & Telecommunication
- Energy
- Healthcare

Analysis Period, Units and Growth Rates

- The report reviews, analyzes and projects the global Graphene market for the period 2018-2027 in terms of market value in US\$ and the compound annual growth rates (CAGRs) projected from 2022 through 2027

Geographic Coverage

- North America (The United States, Canada and Mexico)
- Europe (France, Germany, Italy, the United Kingdom and Rest of Europe)
- Asia-Pacific (China, India, Japan, South Korea and Rest of Asia-Pacific)
- Rest of World

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3. KEY GLOBAL PLAYERS

- 2D Carbon Graphene Material Co Ltd (China)
- ACS Material, LLC (United States)
- Advanced Graphene Products SA (Poland)
- Applied Graphene Materials PLC (United Kingdom)
- Avanzare Innovacion Tecnologica S.L. (Spain)
- BGT Materials Limited (United Kingdom)
- Directa Plus S.p.A. (Italy)
- Enerage Inc. (Taiwan)
- First Graphene Ltd. (Australia)
- G6 Materials Corp. (United States)
- Global Graphene Group (G3) (United States)
- Grafoid, Inc. (Canada)
- Grolltex, Inc. (United States)
- Haydale Graphene Industries PLC (United Kingdom)
- Layerone AS (Norway)
- Levidian Nanosystems (United Kingdom)
- Nanjing Xfnano Materials Tech Co Ltd (China)
- Nanoplore, Inc. (Canada)
- The Sixth Element (Changzhou) Materials Technology Co Ltd (China)
- Thomas Swan Ltd (United Kingdom)
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Advanced Graphene Products Sa (Poland)

Applied Graphene Materials Plc (United Kingdom)

Avanzare Innovacion Tecnologica S.L. (Spain)

BGT Materials Limited (United Kingdom)

Directa Plus S.p.A. (Italy)

Haydale Graphene Industries Plc (United Kingdom)

Layerone AS (Norway)

Levidian Nanosystems (United Kingdom)

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Ad-Nano Technologies Private Limited (India)
Enerage Inc. (Taiwan)
First Graphene Ltd. (Australia)
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PART D: ANNEXURE

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