

Graphene Nanoplatelets Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global graphene nanoplatelets market size reached US\$ 80.2 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 509.5 Million by 2028, exhibiting a growth rate (CAGR) of 36.1% during 2022-2028.

Graphene nanoplatelets (GNPs) refer to attractive materials with excellent planar structure, high aspect ratio, electrical conductivity, and mechanical toughness. Their nano-powder form, appealing chemo-physical properties, and low cost make them a suitable material choice for advanced nanocomposites. Moreover, GNPs polymer conductive inks are functionalized with flexible plastic substrates for manufacturing durable and high-performance devices like antennas, compliant electrodes for energy applications, and electromagnetic interference shielding films. At present, researchers worldwide are utilizing cellular substrates or advanced biodegradable materials to construct sustainable, eco-friendly product variants that can help in electronic waste management.

Graphene Nanoplatelets Market Trends:

The market is mainly driven by the extensive applications of GNPs in numerous industries. For instance, they are used to enhance the characteristics of polymeric materials, including lubricants, paints, coatings, natural or synthetic rubber, thermoset composites, and thermoplastic elastomers, due to their nano-scale volume as well as the form and surface structure. The thriving construction industry is also bolstering the market growth. Moreover, due to the diverse characteristics of GNPs, they are also used in reinforced plastic materials and wearable electronics. Apart from this, GNPs are combined with polydimethylsiloxane (PDMS) to develop a new generation sensor technology. The demand for these GNP-based smart sensors is expanding for tactile devices and electronic robotic skins. Furthermore, leading players are employing innovative approaches that bind conductive nanoflakes to smart textiles under severe

mechanical stresses and laundry cycles. This helps to introduce reliable and washable GNP-based materials with innovative electrically conductive features. This, in confluence with the rising trend of miniaturization, is anticipated to influence the demand for GNP-based smart textiles worldwide and strengthen the growth of the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global graphene nanoplatelets market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on application.

Breakup by Application:

- Composites
- Energy and Power
- Conductive Inks and Coatings
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
 - Australia
 - Indonesia
 - Others
- Europe
 - Germany
 - France
 - United Kingdom
 - Italy
 - Spain
 - Russia
 - Others
- Latin America
 - Brazil
 - Mexico
 - Others
- Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being ACS Materials LLC, Applied Graphene Materials plc, Cambridge Nanosystems Ltd., Cheap Tubes, CVD Equipment Corporation, Directa Plus plc, Global Graphene Group, NanoXplore Inc, Strem Chemicals Inc., Thomas Swan & Co. Ltd, XGSciences and Xiamen Knano Graphene Technology Corporation Limited.

Key Questions Answered in This Report

1. What was the size of the global graphene nanoplatelets market in 2022?
2. What is the expected growth rate of the global graphene nanoplatelets market during 2023-2028?
3. What has been the impact of COVID-19 on the global graphene nanoplatelets market?
4. What are the key factors driving the global graphene nanoplatelets market?
5. What is the breakup of the global graphene nanoplatelets market based on the application?
6. What are the key regions in the global graphene nanoplatelets market?
7. Who are the key players/companies in the global graphene nanoplatelets market?

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