

Global Graphene Nanoplatelets Market to Reach USD 274.9 Million by 2035, Growing at a CAGR of 8.1%, Says Fact.MR

Graphene Nanoplatelets Market Analysis By Grade (M Grade, C Grade and Others), By Application, By Function and By Region

MD, UNITED STATES, June 3, 2025 /EINPresswire.com/ -- The global graphene nanoplatelets market will reach USD 126.8 million in the year 2025. As per Fact.MR analysis, the industry will grow at a CAGR of 8.1% and will reach USD 274.9 million by 2035.Demand is soaring due to the



superior strength, electrical conductivity, and thermal management capabilities of graphene nanoplatelets (GNPs), making them ideal for high-performance composites, next-generation batteries, and EMI shielding applications. As lightweighting and efficiency become core to industries such as electric vehicles, aerospace, and smart devices, GNPs are emerging as a key material technology.

Automotive and aviation industries are using graphene-enhanced materials to improve strengthto-weight ratios, reduce thermal stress, and extend the lifecycle of components. In energy storage, GNPs are gaining traction in solid-state batteries and supercapacitors for their superior conductivity and surface area. As the industry matures, mass production innovations are making GNPs more affordable and scalable, driving their adoption across wider industrial applications.

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Smart Integration and Regional Innovation Drive Market Differentiation

Fact.MR's stakeholder survey reveals that 82% of respondents prioritize energy efficiency and integration performance. Regional differences are defining strategy: North America leads in thermal solutions and battery R&D, Europe is focused on regulatory-compliant coatings, while

Asia-Pacific emphasizes cost-efficient electronics. A lack of standardization remains a constraint, but 69% of stakeholders advocate for unified grading and certification standards to accelerate adoption.

Product innovation is accelerating through application-specific GNPs in EMI shielding, printed electronics, and smart coatings. Players investing in plasma functionalization, inline dispersion, and AI-driven synthesis are expected to lead the market in performance-based customization.

Key Market Highlights

Market to reach USD 274.9 million by 2035 from USD 126.8 million in 2025 CAGR of 8.1%, led by composites (52%) and energy storage (20%) applications C-grade GNPs dominate with 50% share due to their versatility in composites and coatings China is the fastest-growing market, projected at 13.8% CAGR, followed by the U.S. and South Korea

XG Sciences, Angstron Materials, and Haydale Graphene Industries are leading players Regional Snapshot

China dominates with aggressive investments in nanotechnology, battery manufacturing, and EV supply chains. North America and Europe are fueling growth through aerospace, electronics, and regulatory-compliant innovations. Japan, South Korea, and Australia-NZ are pushing forward with advanced manufacturing and research partnerships.

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Competitive Landscape

The global GNPs market is led by XG Sciences with a 18–22% share, thanks to strong IP, highvolume capacity, and partnerships in EVs and battery technology. Angstron Materials Inc. follows with high-performance applications in aerospace and defense. Haydale Graphene Industries uses plasma functionalization to gain an edge in dispersion, while Directa Plus and Graphene Laboratories focus on scalability and R&D market penetration.

Key Companies Profiled-

XG Sciences | Angstron Materials Inc. | Haydale Graphene Industries PLC | Directa Plus S.p.A. | Graphene Laboratories Inc. | Levidian Nanosystems | Xolve | OCSiAl | Log9 Materials | Graphene Nanochem PLC

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The global <u>sodium tripolyphosphate market</u> is expected to be valued at USD 2.62 billion by 2025,

according to Fact.MR analysis indicates that sodium tripolyphosphate will grow at a CAGR of 4.5% and reach USD 4.05 billion by 2035.

The global <u>dimethyl carbonate market</u> is anticipated to be valued at US\$ 1.2 billion in 2023 and it is anticipated to grow at a CAGR of 6.5% to reach US\$ 2.2 billion by the end of 2033.

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