

Global Graphene and 2-D Materials Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Graphene and 2-D Materials market size will reach Million USD in 2025 and is projected to reach Million USD by 2032, with a CAGR of % (2025-2032). Notably, the China Graphene and 2-D Materials market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Graphene is a single layer of carbon atoms arranged in a hexagonal lattice, forming a two-dimensional (2D) material with remarkable properties. It is the basic building block of other carbon allotropes like graphite, carbon nanotubes, and fullerenes. Graphene exhibits extraordinary electrical conductivity, mechanical strength, flexibility, and thermal conductivity, making it a material of great scientific and technological interest. Its unique electronic structure and properties have led to extensive research for potential applications in various fields, including electronics, energy storage, sensors, and materials science. Beyond graphene, the term "2D materials" encompasses a broader class of materials that share the characteristic of being only one or two atoms thick. Examples include transition metal dichalcogenides (TMDs), phosphorene, and hexagonal boron nitride (h-BN). These materials exhibit diverse properties and hold promise for a wide range of applications due to their atomically thin nature and tunable electronic, optical, and mechanical characteristics. The study of graphene and 2D materials has opened up new avenues for innovation in materials science and nanotechnology.

The major global manufacturers of Graphene and 2-D Materials include XG Science, Angstrom Materials, Vorbeck Materials, Applied Graphene Materials, NanoXplore, Huagao, Cambridge Nanosystems, Sixth Element, Grafen, Knano, Morsh, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Graphene and 2-D Materials. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Graphene and 2-D Materials market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Graphene and 2-D Materials market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Graphene and 2-D Materials industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Graphene and 2-D Materials Include:

XG Science

Angstrom Materials

Vorbeck Materials

Applied Graphene Materials

NanoXplore

Huagao

Cambridge Nanosystems

Sixth Element

Grafen

Knano

Morsh

Graphene and 2-D Materials Product Segment Include:

1 to 20 Nanometers

1 to 50 Microns

Graphene and 2-D Materials Product Application Include:

Ink & Coatings

Composite Materials

Electronic Materials

Research Institute

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