

Global Functional Graphite Materials Market Growth 2026-2032

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Abstracts

The global Functional Graphite Materials market size is predicted to grow from US\$ 50.55 million in 2025 to US\$ 143 million in 2032; it is expected to grow at a CAGR of 17.2% from 2026 to 2032.

In this report, functional graphite mainly refers to graphene oxide. Graphene oxide is a two-dimensional carbon nanomaterial obtained by the oxidation of graphene. Its basal plane and sheet edges contain oxygen-containing functional groups such as hydroxyl, epoxy and carboxyl groups, which make it more dispersible in water and polar systems than pristine graphene and enable stronger interfacial interactions with resins, metal ions and biomolecules. In 2025, global sales volume of functional graphite, calculated on a graphene oxide powder equivalent basis, is estimated at approximately 2,736.7 kg, with a global average market price of around USD 18.9 per gram. The upstream segment of the functional graphite value chain mainly includes carbon source materials such as natural flake graphite, expanded graphite and high-purity graphite; oxidation and post-treatment chemicals such as sulfuric acid, nitric acid, phosphoric acid, potassium permanganate and hydrogen peroxide; as well as auxiliary materials and production equipment including deionized water, dispersants, filtration membranes, centrifuges, reactors, drying equipment and waste acid/wastewater treatment systems.

Since Andre Geim and Konstantin Novoselov, physicists at the University of Manchester, successfully isolated graphene from graphite using the micromechanical exfoliation method and were awarded the 2010 Nobel Prize in Physics for their groundbreaking work on graphene, global interest in graphene research, development and commercialization has increased significantly. Graphene-related activities now cover material synthesis, functional modification, product development, application validation and technical services across multiple sectors. However, despite strong

market attention, the graphene industry remains at an early stage of commercialization, and only a limited number of companies have established scalable production capabilities, stable downstream applications and sustainable profitability. While graphene production technologies have gradually improved and production capacity continues to be released, many downstream applications are still in the research, validation or pilot-production stage. As a result, graphene remains a high-investment, long-cycle emerging material sector, with commercial success largely dependent on application maturity, cost reduction, product consistency and the development of large-scale end-use markets.

LP Information, Inc. (LPI) ' newest research report, the "Functional Graphite Materials Industry Forecast" looks at past sales and reviews total world Functional Graphite Materials sales in 2025, providing a comprehensive analysis by region and market sector of projected Functional Graphite Materials sales for 2026 through 2032. With Functional Graphite Materials sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Functional Graphite Materials industry.

This Insight Report provides a comprehensive analysis of the global Functional Graphite Materials landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Functional Graphite Materials portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Functional Graphite Materials market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Functional Graphite Materials and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Functional Graphite Materials.

This report presents a comprehensive overview, market shares, and growth opportunities of Functional Graphite Materials market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Graphene Oxide Solution

Graphene Oxide Powder

Segmentation by Layer Structure:

Single-Layer Graphene Oxide

Multi-Layer Graphene Oxide

Segmentation by Functionalization Type:

Unmodified Graphene Oxide

Modified Graphene Oxide

Segmentation by Application:

Graphene Thermal Conductive Film

Energy Materials

Composite Materials

Graphene Transparent Conductive Film

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

The Sixth Element (Changzhou) Materials

Global Graphene Group

Graphenea

LayerOne

Hangzhou Gaoxi

Shandong LeaderNano

Asbury Carbons

Guangdong Morion Nanotech

ACS Material

E-Way Technology

Great Power New Materials

NSC Co., Ltd.

Baotailong New Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global Functional Graphite Materials market?

What factors are driving Functional Graphite Materials market growth, globally and by

region?

Which technologies are poised for the fastest growth by market and region?

How do Functional Graphite Materials market opportunities vary by end market size?

How does Functional Graphite Materials break out by Type, by Application?

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