

Global Graphene Oxide (GO) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Graphene Oxide (GO) market size was valued at US\$ 39.4 million in 2024 and is forecast to a readjusted size of USD 516 million by 2031 with a CAGR of 44.9% during review period.

Today's graphene is normally produced using mechanical or thermal exfoliation, chemical vapour deposition (CVD), and epitaxial growth. One of the most effective way of synthesised graphene on a large scale could be by the chemical reduction of graphene oxide. Since the first report on mechanical exfoliation of monolayer graphene in 2004, interest in graphite oxide (which is produced by oxidation of graphite) has increased dramatically as people search for a cheaper, simpler, more efficient and better yielding method of producing graphene, that can be scaled up massively compared to current methods, and be financially suitable for industrial or commercial applications.

While graphite is a 3 dimensional carbon based material made up of millions of layers of graphene, graphite oxide is a little different. By the oxidation of graphite using strong oxidizing agents, oxygenated functionalities are introduced in the graphite structure which not only expand the layer separation, but also makes the material hydrophilic (meaning that they can be dispersed in water). This property enables the graphite oxide to be exfoliated in water using sonication, ultimately producing single or few layer graphene, known as graphene oxide (GO). The main difference between graphite oxide and graphene oxide is, thus, the number of layers. While graphite oxide is a multilayer system in a graphene oxide dispersion a few layers flakes and monolayer flakes can be found.

Note: Graphene oxide has two types: powder and dispersions. Graphene oxide can be dispersed into a range of concentration solution. Because graphene oxide dispersions are dispersed in various solutions at different concentrations, the lower the concentration, the lower the price. Many manufacturers can provide products to industrial customers in large batches of dispersions. The price and sales volume caused by different concentrations are difficult to calculate, this report Unit conversion is used. In this report, the capacity and production of graphene oxide dispersions is converted into 100% content GO dry weight.

USA is the largest market with about 55% market share. Europe and China are follower, accounting for about 41% market share.

The key players are Global Graphene Group, Graphenea, Abalonyx AS, Garmor, ACS Material, Cheap Tubes, The Sixth Element Materials, BGT Materials Limited (BGT), Allightec, E WAY Technology, Jining LeaderNano Tech, Nanoinnova etc. Top 3 companies occupied about 55% market share.

This report is a detailed and comprehensive analysis for global Graphene Oxide (GO) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Graphene Oxide (GO) market size and forecasts, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (USD/g), 2020-2031

Global Graphene Oxide (GO) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (USD/g), 2020-2031

Global Graphene Oxide (GO) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (USD/g), 2020-2031

Global Graphene Oxide (GO) market shares of main players, shipments in revenue (\$

Million), sales quantity (Kg), and ASP (USD/g), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Graphene Oxide (GO)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Graphene Oxide (GO) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Global Graphene Group, Graphenea, Abalonyx AS, Garmor, ACS Material, Cheap Tubes, The Sixth Element Materials, BGT Materials Limited (BGT, Allightec, E WAY Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Graphene Oxide (GO) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Graphene Oxide Solution

Graphene Oxide Powder

Market segment by Application

Transparent Conductive Films

Composites

Energy-Related Materials

Biology and Medicine

Others

Major players covered

Global Graphene Group

Graphenea

Abalonyx AS

Garmor

ACS Material

Cheap Tubes

The Sixth Element Materials

BGT Materials Limited (BGT

Allightec

E WAY Technology

Jining LeaderNano Tech

Nanoinnova

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Graphene Oxide (GO) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Graphene Oxide (GO), with price, sales quantity, revenue, and global market share of Graphene Oxide (GO) from 2020 to 2025.

Chapter 3, the Graphene Oxide (GO) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Graphene Oxide (GO) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Graphene Oxide (GO) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Graphene

Oxide (GO).

Chapter 14 and 15, to describe Graphene Oxide (GO) sales channel, distributors, customers, research findings and conclusion.

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