

Global High Purity Graphene Oxide Production, Demand and Key Producers, 2022-2028

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Abstracts

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.

This report studies the global High Purity Graphene Oxide production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Purity Graphene Oxide, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2021 as the base year. This report explores demand trends and competition, as well as details the characteristics of High Purity Graphene Oxide that

contribute to its increasing demand across many markets.

The global High Purity Graphene Oxide market size is expected to reach \$ 30 million by 2028, rising at a market growth of 22.5% CAGR during the forecast period (2022-2028).

Highlights and key features of the study

Global High Purity Graphene Oxide total production and demand, 2017-2028, (KG)

Global High Purity Graphene Oxide total production value, 2017-2028, (USD Million)

Global High Purity Graphene Oxide production by region & country, production, value, CAGR, 2017-2028, (USD Million) & (KG)

Global High Purity Graphene Oxide consumption by region & country, CAGR, 2017-2028 & (KG)

U.S. VS China: High Purity Graphene Oxide domestic production, consumption, key domestic manufacturers and share

Global High Purity Graphene Oxide production by manufacturer, production, price, value and market share 2017-2022, (USD Million) & (KG)

Global High Purity Graphene Oxide production by Type, production, value, CAGR, 2017-2028, (USD Million) & (KG)

Global High Purity Graphene Oxide production by Application production, value, CAGR, 2017-2028, (USD Million) & (KG)

This reports profiles key players in the global High Purity Graphene Oxide market based on the following parameters – headquarters, production locations, products portfolio, High Purity Graphene Oxide revenue, sales, average price and gross margin, recent developments.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High Purity Graphene Oxide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (KG) and average price (USD/g) by manufacturer, by Type, and by Application. Data is given for the years 2017-2028 by year with 2021 as the base year, 2022 as the estimate year, and 2028 as the forecast year.

Global High Purity Graphene Oxide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Global High Purity Graphene Oxide Market, Segmentation by Type

98% Purity or Below

99% Purity

Global High Purity Graphene Oxide Market, Segmentation by Application

Transparent Conductive Films

Composites

Energy-Related Materials

Biology and Medicine

Others

Companies Profiled:

Global Graphene Group

Graphenea

Hangzhou Gaoxi Technology

Garmor

LeaderNano

Cheap Tubes

E WAY Technology

NSC Co., Ltd

The Sixth Element Materials

ACS Material

Pengwei Duolin

Baotailong New Materials

Key Questions Answered

1. How big is the global High Purity Graphene Oxide market?
2. What is the demand of the global High Purity Graphene Oxide market?

3. What is the year over year growth of the global High Purity Graphene Oxide market?
4. What is the production and production value of the global High Purity Graphene Oxide market?
5. Who are the key producers in the global High Purity Graphene Oxide market?
6. What are the growth factors driving the market demand?

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