

2018-2023 Global Graphene Oxide (GO) Consumption Market Report

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Abstracts

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In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global Graphene Oxide (GO) market for 2018-2023.

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.

Graphene oxide has two types: powder and solution. Graphene oxide can be dispersed into a range of concentration solution. Therefore, in this report, the capacity and

production of solution graphene oxide is converted into powders.

In 2017, the global Graphene Oxide (GO) market is led by USA. Europe is the second-largest region-wise market. The global Graphene Oxide (GO) market is valued at 6295 K USD in 2017 and is expected to reach 64504 K USD by the end of 2024, growing at a Growth Rate of 39.44% between 2017 and 2024. USA is the largest market of graphene oxide, in terms of sales volume, according for about 51.8% in 2017.

Currently, Global Graphene Group, Graphenea, Garmor, ACS Material and The Sixth Element Materials are major manufacturers of this industry. Global Graphene Group is a global leader. In 2017, the production of Global Graphene Group was 54.2 M Kg, and the company held a share of 26.82%.

Graphene oxide is an emerging industry. The cosmically industrial production is still being studied, most manufacturers begun the first commercial production since 2013.

Although the profit margin of graphene oxide is high, the research funds is also phenomenal, in additional to this, the downstream demand is unstable.

Currently, the Graphene Oxide (GO) industry looks more like a conceptual product, and the high prices limit the development of the Graphene Oxide (GO) industry. Few downstream consumers can accept such a high price even if GO has shown good performance.

Over the next five years, LPI(LP Information) projects that Graphene Oxide (GO) will register a 38.7% CAGR in terms of revenue, reach US\$ 45 million by 2023, from US\$ 6 million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of Graphene Oxide (GO) market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

Graphene Oxide Solution

Graphene Oxide Powder

Segmentation by application:

Transparent Conductive Films

Composites

Energy-Related Materials

Biology and Medicine

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

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

Global Graphene Group

Graphenea

Garmor

ACS Material

Cheap Tubes

The Sixth Element Materials

BGT Materials

UNIPL

Allightec

E WAY Technology

LeaderNano

Nanoinnova

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

Research objectives

To study and analyze the global Graphene Oxide (GO) consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of Graphene Oxide (GO) market by identifying its various subsegments.

Focuses on the key global Graphene Oxide (GO) manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Graphene Oxide (GO) with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of Graphene Oxide (GO) submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

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