

Global Global Graphene Oxide (GO) Market 2019 by Manufacturers, Regions, Type and Application, Forecast to 2024

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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.

SCOPE OF THE REPORT:

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.

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 addition to this, the downstream demand is unstable.

The worldwide market for Global Graphene Oxide (GO) is expected to grow at a CAGR of roughly xx% over the next five years, will reach xx million US\$ in 2024, from xx million US\$ in 2019, according to a new GIR (Global Info Research) study.

This report focuses on the Global Graphene Oxide (GO) in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

Market Segment by Manufacturers, this report covers

Global Graphene Group

Graphenea

Garmor

ACS Material

Cheap Tubes

The Sixth Element Materials

BGT Materials

UNIPL

Allightec

E WAY Technology

LeaderNano

Nanoinnova

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

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

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Graphene Oxide Solution

Graphene Oxide Powder

Market Segment by Applications, can be divided into

Transparent Conductive Films

Composites

Energy-Related Materials

Biology and Medicine

Others

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

Chapter 1, to describe Global Graphene Oxide (GO) product scope, market overview, market opportunities, market driving force and market risks.

Chapter 2, to profile the top manufacturers of Global Graphene Oxide (GO), with price, sales, revenue and global market share of Global Graphene Oxide (GO) in 2017 and 2018.

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

Chapter 4, the Global Graphene Oxide (GO) breakdown data are shown at the regional level, to show the sales, revenue and growth by regions, from 2014 to 2019.

Chapter 5, 6, 7, 8 and 9, to break the sales data at the country level, with sales, revenue and market share for key countries in the world, from 2014 to 2019.

Chapter 10 and 11, to segment the sales by type and application, with sales market share and growth rate by type, application, from 2014 to 2019.

Chapter 12, Global Graphene Oxide (GO) market forecast, by regions, type and application, with sales and revenue, from 2019 to 2024.

Chapter 13, 14 and 15, to describe Global Graphene Oxide (GO) sales channel, distributors, customers, research findings and conclusion, appendix and data source.

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