

# 2018-2023 Global Graphene nanocomposites Consumption Market Report

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## **Abstracts**

The report requires updating with new data and is sent in 48 hours after order is placed.

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

It exhibits exceptional electronic, mechanical and thermal properties which are expected to increase its use as major filling agents in composite applications. Graphene composites at low loadings exhibit substantial enhancements in multifunctional aspects in comparison to conventional composites & their materials. It also increases the physiochemical qualities of the host matrix/material upon distribution. Graphene based polymer composites exhibits superior thermal, mechanical, gas barrier, flame retardant, and electrical properties in comparison to a conventional polymer. Its involvement in the host matrix improves electrical & mechanical properties better than other nanocomposites such as clay and carbon nanotubes (CNT). Although CNTs are comparable in mechanical properties to that of graphene, still the later is preferable over the former owing to better electrical and thermal conductivity. Graphene nanocomposites market comprises of polymer system such as polystyrene, polystyrene sulfonate, polymethyl methacrylate (PMMA), polyimide, polyethylene terephthalate (PET), epoxy, polyaniline, polyvinylidene fluoride (PVDF), polyurethane (PU), polycarbonate and polyethyldioxythiophene. Situ intercalative polymerization, solution intercalation and melt intercalation are there methods for incorporating polymer in host layered materials. Nanocomposites are used in a matrix with other standard material to improve their properties that include toughness, mechanical strength, and thermal or electrical conductivity. Graphene used in nanocomposites results to even higher strength-toweight ratios. Because of its structure graphene bond better to the conventional



polymers, allowing an effective coupling of the graphene into the structure of the composite. This property could result in the manufacture of components with higher strength-to-weight ratios which can be used in energy storage & conversion devices, electronic devices, plastics & packaging, energy sector, automotive and aviation industry. Growth in electronic industry is likely to drive graphene nanocomposites market over the forecast period. Its properties such as high carrier mobility, moderate optical transmittance and electrical conductivity are used in electrode applications for desensitizing solar cells, liquid crystal devices, field emission devices and organic light emitting diodes (OLEDs). It is estimated that North American region and Asian countries drive the overall graphene nanocomposites market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of Graphene nanocomposites 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 (GO)

Graphene Nano Platelets (GNP)

Graphene Polymer

Segmentation by application:

Packaging

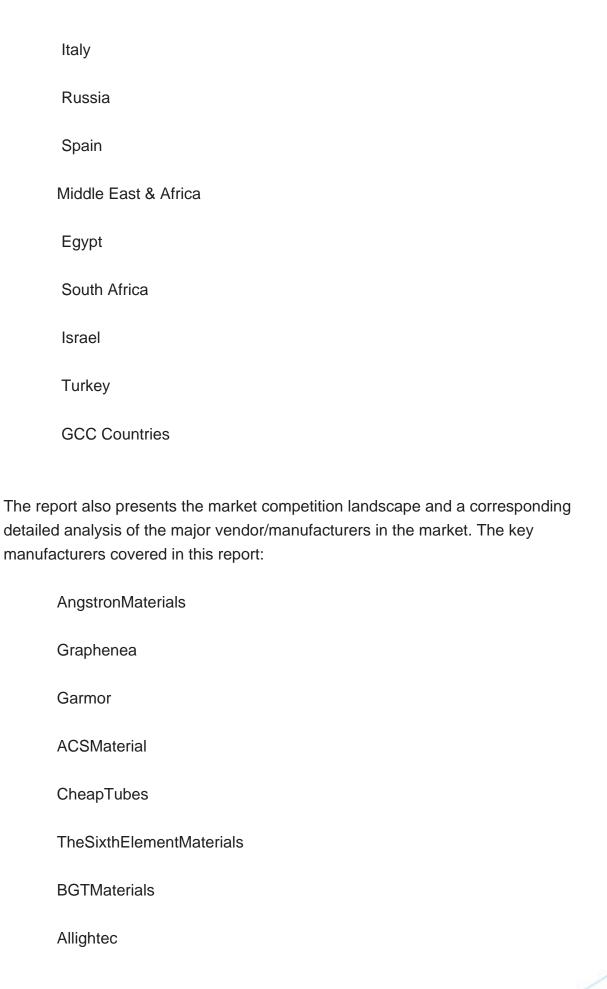
**Building & Construction** 

Electronics & Electrical



Automotive	
Medical	
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	







#### 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 nanocomposites 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 nanocomposites market by identifying its various subsegments.

Focuses on the key global Graphene nanocomposites 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 nanocomposites 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 nanocomposites 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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