

Nanomaterials Market Report by Product Type (Nanoparticles, Nanofibers, Nanotubes, and Others), Structure Type (Non-polymer Organic Nanomaterials, Polymeric Nanomaterials), End Use Industry (Healthcare, Electrical and Electronics, Energy, Construction, Rubber, Personal Care, and Others), and Region 2024-2032

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Abstracts

The global nanomaterials market size reached US\$ 31.7 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 120.6 Billion by 2032, exhibiting a growth rate (CAGR) of 15.7% during 2024-2032.

Nanomaterials (NMs) are microscopic particles in the nanometer (nm) scale occurring naturally, such as blood-borne proteins that are found in the blood and body fat. They can also be engineered to perform specialized functions. At present, they find extensive applications in the manufacturing of sunscreens, cosmetics, sports equipment, stain-resistant clothing, tires, and electronics. They are also utilized in medical diagnosis, imaging, drug delivery, and environmental remediation.

Nanomaterials Market Trends:

The properties of conventional construction materials can be enhanced with the usage of NMs. This represents one of the key factors positively influencing the employment of NMs in the construction sector worldwide. Besides this, there is an increase in the use of NMs in fertilizers, herbicides, pesticides, sensors, quality stimulants, food packaging, and nutraceuticals. They are also used in aircraft as a substitute for conventional composites to help reduce their weight and save fuel. In addition, NMs are utilized in automotive exhaust and petroleum refining systems to improve chemical reactions while

minimizing pollution and expenses. Apart from this, they are contributing to modern dentistry in composite resin and bonding systems, coating materials for dental implants, and dental restorations. This, coupled with the rising adoption of NMs in water and wastewater treatment on account of their reactivity and adsorption capacities, is propelling the market growth. Moreover, scientists have developed a biosensor system using NMs, which can diagnose the coronavirus disease (COVID-19) successfully. This, along with recent advancements in nanomaterials and nanodevices, such as nanosensors, nano-emulsions, and nanopesticides, is projected to facilitate the market growth. Furthermore, the rising utilization of platinum (Pt)-based NMs in the energy sector is augmenting the overall sales and profitability.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global nanomaterials market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on product type, structure type and end use industry.

Breakup by Product Type:

- Nanoparticles
- Nanofibers
- Nanotubes
- Others

Breakup by Structure Type:

- Non-polymer Organic Nanomaterials
- Polymeric Nanomaterials

Breakup by End Use Industry:

- Healthcare
- Electrical and Electronics
- Energy
- Construction
- Rubber
- Personal Care
- Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being ACS Material LLC, American Elements, Arkema S.A., BASF SE, Cabot Corporation, Daikin Industries Ltd., Jiangsu Cnano Technology Co. Ltd., LG Chem Ltd., Nanocyl SA, Nanophase Technologies Corporation, Showa Denko K. K. and Strem Chemicals Inc. (Ascensus Specialties LLC).

Key Questions Answered in This Report

1. What was the size of the global nanomaterials market in 2023?
2. What is the expected growth rate of the global nanomaterials market during 2024-2032?

3. What has been the impact of COVID-19 on the global nanomaterials market?
4. What are the key factors driving the global nanomaterials market?
5. What is the breakup of the global nanomaterials market based on the product type?
6. What is the breakup of the global nanomaterials market based on the end use industry?
7. What are the key regions in the global nanomaterials market?
8. Who are the key players/companies in the global nanomaterials market?

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