

Nanomaterials Market Report and Forecast 2025-2034

Market Report | 2025-07-14 | 172 pages | EMR Inc.

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Report description:

The global nanomaterials market size reached approximately USD 29.82 Billion in 2024. The market is projected to grow at a CAGR of 15.50% between 2025 and 2034, reaching a value of around USD 125.99 Billion by 2034.

Key Trends in the Market

Nanomaterials are defined as materials that have a size of between 1-100 nm. The particles in their nanoscale dimensions can be significantly altered. There are different ways of creating nanomaterials, including purposeful engineering for a specific function, incidental creation as a by-product of mechanical or industrial processes, or natural development.

- The global nanomaterials market growth is guided by the robust growth of the medical and pharmaceutical sectors. Nanomaterials are extensively used in these sectors due to their characteristics that allow precise control of their size, shape, synthesis, and functionalities. They enable the creation of miniature biosensors, which allow point-of-care diagnostics and biochemical analysis through smaller samples. Magnetite nanoparticle is one of the most notable nanomaterials, applied in Magnetic Resonance Imaging.
- One of the significant nanomaterials market trends is the crucial role of nanotechnology in addressing environmental challenges and promoting sustainability. Nanomaterials offer high adsorption capacity, photocatalytic activity, and filtration efficiency, making them effective tools for mitigating environmental pollution. They can also help in reducing resource consumption through the development of efficient technologies.
- Lucrative opportunities presented by the nano-scale field of technology have enabled rapid developments in nanoscience. Nanoscale technologies have emerged as one of the most promising fields of technologies in the contemporary era and the rising awareness among manufacturers regarding the advantages of nanomaterials significantly propels the global nanomaterial market demand. Furthermore, scientists and engineers are continually discovering new ways to implement nanotechnology in computational applications.

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Market Segmentation

The EMR's report titled "Global Nanomaterials Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Product Type

- Nanoparticles
- Nanofibres
- Nanotubes
- Nanoclays
- Nanowires

Market Breakup by Structure Type

- Non-polymer Organic Nanomaterials
- Polymeric Nanomaterials

Market Breakup by End Use

- Healthcare
- Energy
- Electronics
- Construction
- Personal Care
- Paints and Coatings
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Market Share by End-Use

The electronics sector is likely to hold a substantial portion of the global nanomaterials market share due to remarkable advancements in computing and electronics. These advancements have resulted in the development of faster, smaller, and miniature systems capable of efficiently managing and storing increasingly larger volumes of information. In the electronics sector, nanomaterials find diverse applications, such as the utilisation of carbon nanotubes in semiconductor chips, deployment of various nanomaterials in lighting technologies like LEDs and OLEDs, and ongoing exploration of other potential applications.

Market Share by Region

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According to the global nanomaterials market analysis, the Asia Pacific is expected to rapidly grow during the forecast period due to the growing demand for nanomaterials in biomedical applications. Various sectors in the region, including electronics, automotive, medical, and aerospace, among others, are also increasingly utilising nanomaterials. Moreover, the regional market development is positively influenced by the ongoing research and development activities aimed at developing nanomaterials with unique properties in China and Japan.

Competitive Landscape

The comprehensive EMR report provides an in-depth assessment of the market based on Porter's five forces model along with giving a SWOT analysis. The report gives a detailed analysis of the following key players in the global nanomaterials market, covering their competitive landscape and the latest developments like mergers, acquisitions, investments, and expansion plans.

Arkema Group

Arkema Group is a global speciality chemicals and advanced materials company based in France. The company is known for its innovative solutions in various sectors, including coatings, adhesives, plastics, performance chemicals, and advanced materials. Since its establishment in 2004, the company has expanded to become a key player in the chemicals sector.

LG Chem, Ltd.

LG Chem, Ltd. is a multinational chemical company headquartered in Seoul, South Korea. It is a subsidiary of LG Corporation, a leading global conglomerate. The company was founded in the year 1947 and it has developed expertise in the production of a wide range of chemical products, advanced materials, and energy storage solutions. The company develops and provides a wide variety of products, and it has established itself as a leading player in the chemical sector.

Cabot Corporation

Cabot Corporation is an American company specialising in manufacturing speciality chemicals and performance materials. The company was founded in the year 1882 and it is currently headquartered in Massachusetts. Since its establishment, Cabot has evolved into a leading provider of solutions that enhance the performance and sustainability of various products and applications.

Other nanomaterials market players include Nanoshel LLC, CHASM Advanced Materials, Inc., ACS Material, US Research Nanomaterials, Inc., Strem Chemicals, Inc., Fortis Life Sciences Company, and Nanophase Technologies Corporation, and SkySpring Nanomaterials, Inc., among others.

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