

Global Magnesium Oxide Nanoparticle Market Size study & Forecast, by Application (Oil products, Coatings, Construction & Ceramic Industry, Advanced Electronics, Aerospace, Refractory Material in Furnace Lining, Others), and Regional Analysis, 2022-2029

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Abstracts

Global Magnesium Oxide Nanoparticle Market is valued at approximately USD 54.6 Million in 2021 and is anticipated to grow with a healthy growth rate of more than 8.8% over the forecast period 2022-2029. Magnesium oxide nanoparticles are non-toxic and are used in coating materials, crucibles, and as additives in flame-retardant and refractory materials. Oxide particles' size and shape can be changed by adjusting variables including pH, ionic strength, and calcination temperature. The market demand is primarily driven by the factors such as superior properties of the element such as high rigidity, high sterility, high melting point, and so on. coupled with the surging demand for fuel additives to maintain fuel efficiency in the transport industry is credible for the growth of the magnesium oxide nanoparticle industry. Also, rapid industrialization is escalating the growth of steel and cement industries in which oxides play a vital role.

In addition, the rapid growth of steel and cement industries due to industrialization is leading to massive investments in the sector. Boston Metal a US-based steel company received a hefty investment from an Indian Steel maker Company AcelorMittal of USD 120 Million in January 2023. Similarly, Sublime Systems in Massachusetts, US receives USD 40 Million investment for the cement production process in January 2023. Both the steel and cement industries are incorporating magnesium oxide nanoparticles in their manufacturing and development process for their useful and non-toxic properties hence driving demand in the market for the element. Furthermore, the upsurge in water

treatment and air emissions treatment with the increase in demand for non-toxic elements is presenting lucrative opportunities for market growth over the forthcoming years. However, high production costs in the development of Magnesium Oxide Nanoparticle is restricting the market growth over the forecast period of 2022-2029.

The key regions considered for the Global Magnesium Oxide Nanoparticle Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. Asia Pacific dominating the market in terms of revenue due to fast industrialization, which result in the expansion of the steel, cement, coatings, and electronic industries in growing markets such as Japan, India, and China. Whereas, Europe is also expected to grow at the highest growth rate over the forecasting period due to the rising demand for Magnesium Oxide Nanoparticles in the Aerospace industry. Factors such as growing demand in the refractories segment and electronics segment are shooting up the market growth in the forecasting years.

Major market players included in this report are:

American Elements

American International Chemical LLC.

Eprui Nanoparticles & Microspheres Co. Ltd.

Inframat Advanced Materials LLC.

Martin Marietta Magnesia Specialities

Nabond Technologies Co., Ltd.

Nanostructured & Amorphous Materials Inc.

Reinste Nano Ventures

Merck KGaA

Altairnano

Recent Developments in the Market:

In September 2022, LANXESS has developed new phosphorus-based flame retardants with unique qualities such as thermal and mechanical stability and interoperability with engineering plastics.

In July 2022, Quaker Houghton and SKF Group established a collaboration to combine SKF Group's Double Separation Technology (DST) with Quaker Houghton's industrial oils and fluids to help the industry use its resources more efficiently.

In April 2022, BASF has introduced a new line of flame retardant products for the electrical industry. These are polyphthalamides with remarkable corrosion resistance qualities.

Global Magnesium Oxide Nanoparticle Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Application, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Application:

Oil Products

Coatings

Construction & Ceramic Industry

Advanced Electronics

Aerospace

Refractory Material in Furnace Lining

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
ROLA
Rest of the World

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