

Global Cerium Oxide Nanoparticles Market Size study & Forecast, by Form (Dispersion, and Powder), by Application (Energy Storage, Polishing, Catalyst, Personal Care & Cosmetic Products, Biomedical and Others) and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/G4B4521DDA73EN.html>

Date: June 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G4B4521DDA73EN

Abstracts

Global Cerium Oxide Nanoparticles Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than 15% over the forecast period 2023-2030. Nanoscale measurements of cerium oxide nanoparticles range from 1 to 100 nanometers. They can be created with certain characteristics, such as size, shape, surface, and chemical, or they can exist naturally. In comparison to cerium oxide atoms, cerium oxide nanoparticles exhibit higher resistivity, strength, optical absorption, and conductivity. One of the key elements that enhances the characteristics of cerium oxide nanoparticles is relative surface area. Due to its superior physio-chemical characteristics, which improve the performance of the finished product, cerium oxide nanoparticle demand has expanded across a variety of industry applications. The market growth is driven by key factors such as rising Polishing Agent Utilization and growing Demand from Semiconductor Industry.

Global semiconductor sales totaled 580.13 billion USD in 2022. Semiconductors are essential parts of modern equipment, and the market is extremely competitive. In 2022, the annual growth rate was 4.4 percent. Intel and Samsung Electronics are notable semiconductor chip manufacturers, with Intel expected to generate 58.4 billion dollars in revenue from semiconductors and Samsung expected to generate 65.6 billion dollars in revenue from semiconductors in 2022, respectively. Furthermore, government organizations to identify industrial uses for this kind of cerium oxide nanoparticles. The National Nanotechnology Effort (NNI), a U.S. government research and development (R&D) effort, received more than USD 1.4 billion in funding from the Federal Budget in

2017, increasing the total amount spent on NNI since its beginning in 2001 to almost USD 24 billion. NNI received a budget proposal of approximately USD 1.7 billion from the president of the National Science & Technology Council for 2021 in 2020. Moreover, the market growth is depending on future opportunities such as Significant opportunities in end use industries and the Advancement of technologies coupled with growing R&D activities. However, the Toxic Nature of High Concentration Nanoparticles stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Cerium Oxide Nanoparticles Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Due to its abundance of international automakers and the government's encouragement of investment through improved investment policies, highly skilled labor, and accessible infrastructure, North America dominated the global market and is expected to continue to do so over the forecast period. Additionally, the automobile industry in Europe is one of the major contributors to GDP and is anticipated to remain the same due to increased demand and advancing technology.

Major market player included in this report are:

Chengdu Alpha Nano Technology Co., Ltd.

Advanced Nano Products Co., Ltd.

American Elements.

Cerion, LLC.

EPRUI Biotech Co.,Ltd.

Inframat Advanced Materials, LLC

Meliorum Technologies, Inc.

Nanophase Technologies Corporation.

Nanostructured & Amorphous Materials, Inc.

NYACOL Nano Technologies Inc.

Recent Developments in the Market:

NA

Global Cerium Oxide Nanoparticles Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

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

Segments Covered – Form, Application Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East &

Africa

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 Form:

Dispersion
Powder

By Application:

Energy Storage
Polishing
Catalyst
Personal Care & Cosmetic Products
Biomedical
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

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Saudi Arabia

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Rest of Middle East & Africa

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