

# Global Cerium Oxide Nanoparticle Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Cerium Oxide Nanoparticle market size will reach 36.50 Million USD in 2025 and is projected to reach 52.78 Million USD by 2032, with a CAGR of 5.41% (2025-2032). Notably, the China Cerium Oxide Nanoparticle market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Cerium oxide nanoparticles, also known as ceria nanoparticles, are nanoscale particles of cerium oxide (CeO<sub>2</sub>), a rare-earth metal oxide compound. These nanoparticles exhibit unique properties due to their small size and high surface area-to-volume ratio. Cerium oxide nanoparticles have shown promising applications in various fields, including catalysis, energy storage, environmental remediation, and biomedicine. In catalysis, they act as efficient catalysts and catalyst supports, due to their redox properties and oxygen storage capacity. In energy storage, ceria nanoparticles are used in solid oxide fuel cells to enhance the performance and stability of the electrolyte. They are also being explored for potential use in lithium-ion batteries to improve their capacity and lifespan. In environmental remediation, cerium oxide nanoparticles are used to remove pollutants from water and air due to their excellent adsorption and photocatalytic properties. In biomedicine, ceria nanoparticles have shown antioxidant and anti-inflammatory properties, making them promising candidates for various therapeutic applications, including drug delivery and tissue engineering. However, their potential toxicity and environmental impact need to be thoroughly studied to ensure safe

and sustainable use in these applications. Overall, cerium oxide nanoparticles represent a versatile and exciting nanomaterial with significant potential for various technological and biomedical advancements.

The major global manufacturers of Cerium Oxide Nanoparticle include Nyacol Nano Technologies, Nanophase Technologies, Meliorum Technologies, Cerion, Xuancheng Jingrui, Grirem Advanced Materials, Ganzhou Zhanhai, Changzhou Zhuoqun, Heli Rare Earth, Nanjing Emperor Nano Materials, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Cerium Oxide Nanoparticle. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Cerium Oxide Nanoparticle market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Cerium Oxide Nanoparticle market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Cerium Oxide Nanoparticle industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from

various markets monitoring database.

Global Key Manufacturers of Cerium Oxide Nanoparticle Include:

Nyacol Nano Technologies

Nanophase Technologies

Meliorum Technologies

Cerion

Xuancheng Jingrui

Grirem Advanced Materials

Ganzhou Zhanhai

Changzhou Zhuoqun

Heli Rare Earth

Nanjing Emperor Nano Materials

Cerium Oxide Nanoparticle Product Segment Include:

0-50 nm

50-100 nm

Above 100 nm

Cerium Oxide Nanoparticle Product Application Include:

Precision Polishing

Catalyst

UV Absorber

Others

## **Chapter Scope**

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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