

# Global Aluminum Oxide Nanoparticles Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Aluminum Oxide Nanoparticles market size was valued at US\$ 803 million in 2025 and is forecast to a readjusted size of US\$ 1435 million by 2032 with a CAGR of 8.6% during review period.

In 2025, global Aluminum Oxide Nanoparticles reached approximately 2,731 tons, with an average global market price of around 285.8 USD/kg.

Aluminum Oxide Nanoparticles (also known as Nano-Alumina) refer to nanoscale particulate materials composed of aluminum and oxygen elements, with a particle size typically ranging from 1 to 100 nanometers. They are usually prepared by methods such as sol-gel, hydrothermal synthesis, or vapor deposition, and exhibit unique physical and chemical properties including high specific surface area, excellent thermal stability, good wear resistance, and strong adsorption capacity, differing from conventional aluminum oxide in reactivity and functional performance. These nanoparticles are widely used as additives, catalysts, or functional fillers in various fields due to their nanoscale advantages.

Demand for Aluminum Oxide Nanoparticles is primarily driven by the rapid development of the electronics and semiconductor industry (for polishing slurries and dielectric materials), the growing demand for high-performance coatings and composites in the automotive and aerospace sectors, and the expansion of applications in energy storage (battery separators, catalyst supports) and biomedical fields. Additionally, the advancement of nanomaterial synthesis technologies and the increasing emphasis on high-value-added materials further boost market needs. Business opportunities lie in the R&D of high-purity, monodisperse aluminum oxide nanoparticles to meet high-precision

application requirements, the development of cost-effective large-scale synthesis processes, the expansion of customized products for specific industries (e.g., semiconductor-grade polishing nanoparticles), and the exploration of emerging applications in flexible electronics and environmental remediation.

This report is a detailed and comprehensive analysis for global Aluminum Oxide Nanoparticles market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Crystal Phase and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Aluminum Oxide Nanoparticles market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Aluminum Oxide Nanoparticles market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Aluminum Oxide Nanoparticles market size and forecasts, by Crystal Phase and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Aluminum Oxide Nanoparticles market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Aluminum Oxide Nanoparticles

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Aluminum Oxide Nanoparticles market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Evonik, Cabot, Sasol, US Research Nanomaterials, NaBond Technologies, Inframat Advanced Materials, Strem Chemicals, Meliorum Technologies, SkySpring Nanomaterials, NanoAmor, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Aluminum Oxide Nanoparticles market is split by Crystal Phase and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Crystal Phase, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Crystal Phase

Alpha (?) Aluminum Oxide Nanoparticles

Gamma (?) Aluminum Oxide Nanoparticles

Theta (?) Aluminum Oxide Nanoparticles

Delta (?) Aluminum Oxide Nanoparticles

### Market segment by Particle Size Range

Below 10 nm Aluminum Oxide Nanoparticles

10-50 nm Aluminum Oxide Nanoparticles

Above 50 nm Aluminum Oxide Nanoparticles

## Market segment by Surface Modification

Unmodified Aluminum Oxide Nanoparticles

Silane-Modified Aluminum Oxide Nanoparticles

Titaneate-Modified Aluminum Oxide Nanoparticles

Polymer-Coated Aluminum Oxide Nanoparticles

## Market segment by Application

Electronics & Semiconductor Industry

Automotive & Aerospace Industry

Energy Storage Industry

Biomedical Industry

Others

## Major players covered

Evonik

Cabot

Sasol

US Research Nanomaterials

NaBond Technologies

Inframat Advanced Materials

Strem Chemicals

Meliorum Technologies

SkySpring Nanomaterials

NanoAmor

CW-Nano

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Aluminum Oxide Nanoparticles product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Aluminum Oxide Nanoparticles, with price, sales quantity, revenue, and global market share of Aluminum Oxide Nanoparticles from 2021 to 2026.

Chapter 3, the Aluminum Oxide Nanoparticles competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Aluminum Oxide Nanoparticles breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions,

from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Crystal Phase and by Application, with sales market share and growth rate by Crystal Phase, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Aluminum Oxide Nanoparticles market forecast, by regions, by Crystal Phase, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Aluminum Oxide Nanoparticles.

Chapter 14 and 15, to describe Aluminum Oxide Nanoparticles sales channel, distributors, customers, research findings and conclusion.

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