

# Global Gadolinium Zirconate 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 Gadolinium Zirconate market size was valued at US\$ 542 million in 2025 and is forecast to a readjusted size of US\$ 1031 million by 2032 with a CAGR of 9.6% during review period.

Gadolinium zirconate ( $Gd_2Zr_2O_7$ ) is a rare-earth ceramic oxide with a stable pyrochlore crystal structure, prized for its extremely low thermal conductivity, high melting point (~2,300 °C), and excellent phase stability under thermal cycling, making it a next-generation material for thermal barrier coatings (TBCs) in gas turbines, aero-engines, and advanced energy systems. Its supply chain begins upstream with rare-earth mining and separation—primarily gadolinium oxide sourced from bastnäsite and monazite ores in China, Australia, and parts of Africa—paired with zirconium chemicals derived from zircon sand mined in Australia, South Africa, and Indonesia; these precursors are refined into high-purity  $Gd_2O_3$  and  $ZrO_2$ , then synthesized via solid-state reaction, coprecipitation, or sol-gel routes into gadolinium zirconate powders. Midstream producers specialize in ceramic powder processing, particle size control, and spray-grade granulation for plasma spraying or EB-PVD deposition, while downstream, coating formulators, turbine OEMs, and MRO providers integrate  $Gd_2Zr_2O_7$  into multilayer TBC systems for aircraft engines, power-generation turbines, and high-temperature industrial equipment, where performance, reliability, and lifecycle cost drive material adoption. In 2025, global gadolinium zirconate output was estimated at around 5,400 tons, underpinned by an installed production capacity of roughly 7,200 tons per year, with unit prices spanning USD 85,000 to 160,000 per ton, while the industry sustains elevated gross margins of about 42%.

This report is a detailed and comprehensive analysis for global Gadolinium Zirconate

market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 Gadolinium Zirconate market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

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

Global Gadolinium Zirconate market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Gadolinium Zirconate market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Gadolinium Zirconate

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 Gadolinium Zirconate 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 American Elements (USA), Oerlikon Metco (Switzerland), CoorsTek (USA), CeramTec (Germany), Morgan Advanced Materials (UK), IHI Corporation (Japan), Quanju New Materials (China), H?gan?s (Sweden), etc.

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

## Market Segmentation

Gadolinium Zirconate market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

E-Beam-PVD Grade

Air Plasma Spray Grade

Suspension Plasma Spray Grade

### Market segment by Particle Size

Nano Grade (20–200 nm)

Submicron Grade (0.2–1  $\mu$ m)

Spray Grade (1–50  $\mu$ m)

Coarse Ceramic Grade (>50  $\mu$ m)

### Market segment by Application

Defense & Aerospace

Power & Energy System

Others

### Major players covered

American Elements (USA)

Oerlikon Metco (Switzerland)

CoorsTek (USA)

CeramTec (Germany)

Morgan Advanced Materials (UK)

IHI Corporation (Japan)

Quanju New Materials (China)

H?gan?s (Sweden)

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 Gadolinium Zirconate product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Gadolinium Zirconate 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 Type and by Application, with sales market share and growth rate by Type, 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 Gadolinium Zirconate market forecast, by regions, by Type, 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 Gadolinium Zirconate.

Chapter 14 and 15, to describe Gadolinium Zirconate sales channel, distributors, customers, research findings and conclusion.

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