

Global Gadolinium Zirconate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Gadolinium Zirconate market size is expected to reach \$ 1031 million by 2032, rising at a market growth of 9.6% CAGR during the forecast period (2026-2032).

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 bastnasite 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, co-precipitation, 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 studies the global Gadolinium Zirconate production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Gadolinium Zirconate and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Gadolinium Zirconate that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Gadolinium Zirconate total production and demand, 2021-2032, (Tons)

Global Gadolinium Zirconate total production value, 2021-2032, (USD Million)

Global Gadolinium Zirconate production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Gadolinium Zirconate consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Gadolinium Zirconate domestic production, consumption, key domestic manufacturers and share

Global Gadolinium Zirconate production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Gadolinium Zirconate production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Gadolinium Zirconate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Gadolinium Zirconate market based on the following parameters - company overview, production, value, 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), Hoganas (Sweden), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Gadolinium Zirconate market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by

manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Gadolinium Zirconate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gadolinium Zirconate Market, Segmentation by Type:

E-Beam-PVD Grade

Air Plasma Spray Grade

Suspension Plasma Spray Grade

Global Gadolinium Zirconate Market, Segmentation by Particle Size:

Nano Grade (20–200 nm)

Submicron Grade (0.2–1 μ m)

Spray Grade (1–50 μ m)

Coarse Ceramic Grade (>50 ?m)

Global Gadolinium Zirconate Market, Segmentation by Application:

Defense & Aerospace

Power & Energy System

Others

Companies Profiled:

American Elements (USA)

Oerlikon Metco (Switzerland)

CoorsTek (USA)

CeramTec (Germany)

Morgan Advanced Materials (UK)

IHI Corporation (Japan)

Quanju New Materials (China)

Hoganas (Sweden)

Key Questions Answered:

1. How big is the global Gadolinium Zirconate market?
2. What is the demand of the global Gadolinium Zirconate market?
3. What is the year over year growth of the global Gadolinium Zirconate market?
4. What is the production and production value of the global Gadolinium Zirconate market?
5. Who are the key producers in the global Gadolinium Zirconate market?

6. What are the growth factors driving the market demand?

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