

Global Ceria Stabilized Zirconia Powder (CSZ Powder) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ceria Stabilized Zirconia Powder (CSZ Powder) market size is expected to reach \$ 244 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Ceria stabilized zirconia powder is a functional ceramic micropowder in which cerium oxide acts as a stabilizer and exists in solid solution form within the zirconia lattice. By adding a specific proportion of cerium oxide to zirconia, its high-temperature stable cubic crystal structure is "frozen" to room temperature, thus obtaining an advanced material precursor that exhibits no phase transformation at room temperature and possesses excellent mechanical properties and specific functional characteristics. Demand stems from the pursuit of high-performance ceramics and functional materials by high-end manufacturing industries. Its upstream supply chain mainly consists of rare earth and zirconium ore smelting and chemical companies, responsible for providing high-purity cerium oxide, zirconia, and other basic raw materials, as well as core powder preparation methods such as co-precipitation and hydrothermal synthesis. Downstream, it directly targets application manufacturers, who use CSZ powder through molding, sintering, and other processes to manufacture oxygen sensors, solid oxide fuel cell electrolytes, dental implants, articular heads, thermal barrier coatings, and wear-resistant ceramic components, ultimately applying them to high-tech fields such as the automotive industry, new energy, aerospace, and biomedicine. In 2025, the production of ceria stabilized zirconia powder will be approximately 2,000 tons, with an average selling price of approximately US\$80/kg, a gross profit margin of approximately 30%, and a single production line capacity of approximately 80 tons/year.

This report studies the global Ceria Stabilized Zirconia Powder (CSZ Powder) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ceria Stabilized Zirconia Powder (CSZ Powder) 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 Ceria Stabilized Zirconia Powder (CSZ Powder) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ceria Stabilized Zirconia Powder (CSZ Powder) total production and demand, 2021-2032, (Tons)

Global Ceria Stabilized Zirconia Powder (CSZ Powder) total production value, 2021-2032, (USD Million)

Global Ceria Stabilized Zirconia Powder (CSZ Powder) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Ceria Stabilized Zirconia Powder (CSZ Powder) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Ceria Stabilized Zirconia Powder (CSZ Powder) domestic production, consumption, key domestic manufacturers and share

Global Ceria Stabilized Zirconia Powder (CSZ Powder) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Ceria Stabilized Zirconia Powder (CSZ Powder) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Ceria Stabilized Zirconia Powder (CSZ Powder) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Ceria Stabilized Zirconia Powder (CSZ Powder) 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 Tosoh

Corporation, Daiichi Kigenso Kagaku Kogyo Co., Ltd, Saint-Gobain, Advanced Ceramic Materials, Stanford Advanced Materials, American Elements, Nanochemazone, GNPGraystar, Sinocera Functional Materials Co., Ltd, Guangdong Orient Zirconic Ind Sci & Tech Co., Ltd, 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 Ceria Stabilized Zirconia Powder (CSZ Powder) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Kg) 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 Ceria Stabilized Zirconia Powder (CSZ Powder) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ceria Stabilized Zirconia Powder (CSZ Powder) Market, Segmentation by Type:

Micrometer Scale

Nanometer Scale

Global Ceria Stabilized Zirconia Powder (CSZ Powder) Market, Segmentation by Production Process:

Coprecipitation Powder

Solvothermal Powder

Solid-phase Powder

Sol-gel Powder

Global Ceria Stabilized Zirconia Powder (CSZ Powder) Market, Segmentation by Application:

Automotive

New Energy

Aerospace

Biomedical

Other

Companies Profiled:

Tosoh Corporation

Daiichi Kigenso Kagaku Kogyo Co., Ltd

Saint-Gobain

Advanced Ceramic Materials

Stanford Advanced Materials

American Elements

Nanochemazone

GNPGraystar

Sinocera Functional Materials Co., Ltd

Guangdong Orient Zirconic Ind Sci & Tech Co., Ltd

Ultrananotech

CD BioSustainable

Key Questions Answered:

1. How big is the global Ceria Stabilized Zirconia Powder (CSZ Powder) market?
2. What is the demand of the global Ceria Stabilized Zirconia Powder (CSZ Powder) market?
3. What is the year over year growth of the global Ceria Stabilized Zirconia Powder (CSZ Powder) market?
4. What is the production and production value of the global Ceria Stabilized Zirconia Powder (CSZ Powder) market?
5. Who are the key producers in the global Ceria Stabilized Zirconia Powder (CSZ Powder) market?
6. What are the growth factors driving the market demand?

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