

Global Ceria-Zirconia Solid Solution Market Growth 2023-2029

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Abstracts

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Ceria-zirconia is a solid solution of cerium(IV) oxide (CeO_2 , also known as ceria) and zirconium oxide (ZrO_2 , also known as zirconia).

The crystal structure adopted by ceria-zirconia depends on the Zr/Ce ratio and temperature. At very low Zr concentrations, ceria-zirconia exhibits the cubic fluorite structure, which is common to both pure ceria and cubic zirconia (pure zirconia normally only adopts a cubic structure at high temperatures). However, at higher Zr contents, other crystal structures are formed, including two different tetragonal phases at intermediate Zr concentrations, and a monoclinic phase at very high Zr concentrations.

Ceria-zirconia is widely used as a component in current three-way catalytic converters. The ceria-based component of the converter has several functions, including promoting the dispersion of the noble metals in the catalyst, but also storing and releasing oxygen. The incorporation of zirconium in modern converters, forming ceria-zirconia, improves the performance of the catalyst by enhancing the resistance of the material to sintering, and simultaneously increasing the ability of the oxide to accommodate oxygen vacancies in its structure.

LPI (LP Information)' newest research report, the "Ceria-Zirconia Solid Solution Industry Forecast" looks at past sales and reviews total world Ceria-Zirconia Solid Solution sales in 2022, providing a comprehensive analysis by region and market sector of projected Ceria-Zirconia Solid Solution sales for 2023 through 2029. With Ceria-Zirconia Solid Solution sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ceria-Zirconia Solid Solution

industry.

This Insight Report provides a comprehensive analysis of the global Ceria-Zirconia Solid Solution landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Ceria-Zirconia Solid Solution portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ceria-Zirconia Solid Solution market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ceria-Zirconia Solid Solution and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ceria-Zirconia Solid Solution.

The global Ceria-Zirconia Solid Solution market size is projected to grow from US\$ million in 2022 to US\$ million in 2029; it is expected to grow at a CAGR of % from 2023 to 2029.

United States market for Ceria-Zirconia Solid Solution is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

China market for Ceria-Zirconia Solid Solution is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Europe market for Ceria-Zirconia Solid Solution is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Global key Ceria-Zirconia Solid Solution players cover Solvay, Daiichi Kigenso Kagaku-Kogyo (DKKK), Neo Performance Materials (AMR), Shandong Sinocera and China Northern Rare Earth Group, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2022.

This report presents a comprehensive overview, market shares, and growth opportunities of Ceria-Zirconia Solid Solution market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

by Particle Size

2-5 um

8-15 um

by Main Element

High Zr Series (CeO₂: 30%-40%)

High Ce Series (CeO₂: 47%-65%)

Segmentation by application

Automotive

Motorcycle

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Solvay

Daiichi Kigenso Kagaku-Kogyo (DKKK)

Neo Performance Materials (AMR)

Shandong Sinocera

China Northern Rare Earth Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ceria-Zirconia Solid Solution market?

What factors are driving Ceria-Zirconia Solid Solution market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Ceria-Zirconia Solid Solution market opportunities vary by end market size?

How does Ceria-Zirconia Solid Solution break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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