

Global Ceria–zirconia Mixed Oxide Catalyst Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ceria–zirconia Mixed Oxide Catalyst market size is expected to reach \$ 249 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

In 2025, global Ceria–zirconia Mixed Oxide Catalyst production reached approximately 9,900 tons, with an average global market price of around US\$18.2 per kilogram. Ceria–zirconia mixed oxide catalyst is a functional Ce-Zr oxide material based primarily on cerium oxide and zirconium oxide, typically produced through co-precipitation, hydrothermal, sol-gel or other mixed-oxide synthesis routes. It can be further doped with rare earth elements such as lanthanum, neodymium, praseodymium or yttrium to improve thermal stability, oxygen storage and release capacity, anti-sintering performance and aged surface area. The material is mainly supplied as powder, granules or dispersions for automotive emission-control catalysts, industrial exhaust-gas catalysts and other redox catalytic systems.

The global ceria-zirconia mixed oxide catalyst market is primarily driven by the continuous tightening of motor vehicle exhaust emission regulations worldwide, with the upgrading of policy standards directly promoting the continuous improvement of product performance requirements. Higher pollutant conversion efficiency, superior high-temperature thermal stability and longer service life become key elements of product competition, prompting the industry to continuously carry out technological iteration and production process optimization. The supply pattern of cerium and zirconium raw materials shows significant concentration characteristics, with geopolitical factors and resource export control policies jointly affecting supply chain stability. Raw material price fluctuations and supply interruption risks have an important impact on industry operation. Industry R&D activities mainly focus on optimizing element ratios, introducing

doping elements to improve oxygen storage performance, reducing cerium usage and developing efficient recycling technologies, while exploring new formulas to alleviate dependence on key raw materials. The expansion of the hybrid electric vehicle market brings sustained demand growth for the industry, and the traditional fuel vehicle market will still constitute the basic demand plate in a long period. The steady growth of motor vehicle ownership in emerging markets becomes an important support for global demand growth. The industry has high technical and process barriers, with deep binding between upstream and downstream of the industrial chain, and regional supply chain layout becomes an important development direction of the industry.

This report studies the global Ceria–zirconia Mixed Oxide Catalyst production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ceria–zirconia Mixed Oxide Catalyst 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–zirconia Mixed Oxide Catalyst that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ceria–zirconia Mixed Oxide Catalyst total production and demand, 2021-2032, (Tons)

Global Ceria–zirconia Mixed Oxide Catalyst total production value, 2021-2032, (USD Million)

Global Ceria–zirconia Mixed Oxide Catalyst production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Ceria–zirconia Mixed Oxide Catalyst consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Ceria–zirconia Mixed Oxide Catalyst domestic production, consumption, key domestic manufacturers and share

Global Ceria–zirconia Mixed Oxide Catalyst production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Ceria–zirconia Mixed Oxide Catalyst production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Ceria–zirconia Mixed Oxide Catalyst production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Ceria–zirconia Mixed Oxide Catalyst 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 Solvay, DKKK, Neo Performance Materials, Luxfer MEL Technologies, PIDC, Inner Mongolia Baotou Steel Rare-earth, Sinocera Functional Material, 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–zirconia Mixed Oxide Catalyst 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–zirconia Mixed Oxide Catalyst Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ceria–zirconia Mixed Oxide Catalyst Market, Segmentation by Type:

High Zirconium Content (Zirconium Compound ?50%)

High Cerium Content (Cerium Compound ?50%)

Balanced Ce-Zr

Global Ceria–zirconia Mixed Oxide Catalyst Market, Segmentation by Shape:

Powders / Granules

Slurries / Dispersions

Global Ceria–zirconia Mixed Oxide Catalyst Market, Segmentation by Carrier:

Standard Type

Alumina-Supported

Global Ceria–zirconia Mixed Oxide Catalyst Market, Segmentation by Application:

Automotive Exhaust Purification

Industrial Catalysis

Others

Companies Profiled:

Solvay

DKKK

Neo Performance Materials

Luxfer MEL Technologies

PIDC

Inner Mongolia Baotou Steel Rare-earth

Sinocera Functional Material

Key Questions Answered:

1. How big is the global Ceria–zirconia Mixed Oxide Catalyst market?
2. What is the demand of the global Ceria–zirconia Mixed Oxide Catalyst market?
3. What is the year over year growth of the global Ceria–zirconia Mixed Oxide Catalyst market?
4. What is the production and production value of the global Ceria–zirconia Mixed Oxide Catalyst market?
5. Who are the key producers in the global Ceria–zirconia Mixed Oxide Catalyst market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Ceria–zirconia Mixed Oxide Catalyst Introduction
- 1.2 World Ceria–zirconia Mixed Oxide Catalyst Supply & Forecast
 - 1.2.1 World Ceria–zirconia Mixed Oxide Catalyst Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Ceria–zirconia Mixed Oxide Catalyst Production (2021-2032)
 - 1.2.3 World Ceria–zirconia Mixed Oxide Catalyst Pricing Trends (2021-2032)
- 1.3 World Ceria–zirconia Mixed Oxide Catalyst Production by Region (Based on Production Site)
 - 1.3.1 World Ceria–zirconia Mixed Oxide Catalyst Production Value by Region (2021-2032)
 - 1.3.2 World Ceria–zirconia Mixed Oxide Catalyst Production by Region (2021-2032)
 - 1.3.3 World Ceria–zirconia Mixed Oxide Catalyst Average Price by Region (2021-2032)
 - 1.3.4 North America Ceria–zirconia Mixed Oxide Catalyst Production (2021-2032)
 - 1.3.5 Europe Ceria–zirconia Mixed Oxide Catalyst Production (2021-2032)
 - 1.3.6 China Ceria–zirconia Mixed Oxide Catalyst Production (2021-2032)
 - 1.3.7 Japan Ceria–zirconia Mixed Oxide Catalyst Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Ceria–zirconia Mixed Oxide Catalyst Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Ceria–zirconia Mixed Oxide Catalyst Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Ceria–zirconia Mixed Oxide Catalyst Demand (2021-2032)
- 2.2 World Ceria–zirconia Mixed Oxide Catalyst Consumption by Region
 - 2.2.1 World Ceria–zirconia Mixed Oxide Catalyst Consumption by Region (2021-2026)
 - 2.2.2 World Ceria–zirconia Mixed Oxide Catalyst Consumption Forecast by Region (2027-2032)
- 2.3 United States Ceria–zirconia Mixed Oxide Catalyst Consumption (2021-2032)
- 2.4 China Ceria–zirconia Mixed Oxide Catalyst Consumption (2021-2032)
- 2.5 Europe Ceria–zirconia Mixed Oxide Catalyst Consumption (2021-2032)
- 2.6 Japan Ceria–zirconia Mixed Oxide Catalyst Consumption (2021-2032)
- 2.7 South Korea Ceria–zirconia Mixed Oxide Catalyst Consumption (2021-2032)
- 2.8 ASEAN Ceria–zirconia Mixed Oxide Catalyst Consumption (2021-2032)

2.9 India Ceria–zirconia Mixed Oxide Catalyst Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Ceria–zirconia Mixed Oxide Catalyst Production Value by Manufacturer (2021-2026)

3.2 World Ceria–zirconia Mixed Oxide Catalyst Production by Manufacturer (2021-2026)

3.3 World Ceria–zirconia Mixed Oxide Catalyst Average Price by Manufacturer (2021-2026)

3.4 Ceria–zirconia Mixed Oxide Catalyst Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Ceria–zirconia Mixed Oxide Catalyst Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Ceria–zirconia Mixed Oxide Catalyst in 2025

3.5.3 Global Concentration Ratios (CR8) for Ceria–zirconia Mixed Oxide Catalyst in 2025

3.6 Ceria–zirconia Mixed Oxide Catalyst Market: Overall Company Footprint Analysis

3.6.1 Ceria–zirconia Mixed Oxide Catalyst Market: Region Footprint

3.6.2 Ceria–zirconia Mixed Oxide Catalyst Market: Company Product Type Footprint

3.6.3 Ceria–zirconia Mixed Oxide Catalyst Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Ceria–zirconia Mixed Oxide Catalyst Production Value Comparison

4.1.1 United States VS China: Ceria–zirconia Mixed Oxide Catalyst Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Ceria–zirconia Mixed Oxide Catalyst Production Comparison

4.2.1 United States VS China: Ceria–zirconia Mixed Oxide Catalyst Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Ceria–zirconia Mixed Oxide Catalyst Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Ceria–zirconia Mixed Oxide Catalyst Consumption Comparison

4.3.1 United States VS China: Ceria–zirconia Mixed Oxide Catalyst Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Ceria–zirconia Mixed Oxide Catalyst Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Ceria–zirconia Mixed Oxide Catalyst Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Ceria–zirconia Mixed Oxide Catalyst Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production Value (2021-2026)

4.4.3 United States Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production (2021-2026)

4.5 China Based Ceria–zirconia Mixed Oxide Catalyst Manufacturers and Market Share

4.5.1 China Based Ceria–zirconia Mixed Oxide Catalyst Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production Value (2021-2026)

4.5.3 China Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production (2021-2026)

4.6 Rest of World Based Ceria–zirconia Mixed Oxide Catalyst Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Ceria–zirconia Mixed Oxide Catalyst Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Ceria–zirconia Mixed Oxide Catalyst Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 High Zirconium Content (Zirconium Compound ?50%)

5.2.2 High Cerium Content (Cerium Compound ?50%)

5.2.3 Balanced Ce-Zr

5.3 Market Segment by Type

5.3.1 World Ceria–zirconia Mixed Oxide Catalyst Production by Type (2021-2032)

5.3.2 World Ceria–zirconia Mixed Oxide Catalyst Production Value by Type (2021-2032)

5.3.3 World Ceria–zirconia Mixed Oxide Catalyst Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SHAPE

6.1 World Ceria–zirconia Mixed Oxide Catalyst Market Size Overview by Shape: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Shape

6.2.1 Powders / Granules

6.2.2 Slurries / Dispersions

6.3 Market Segment by Shape

6.3.1 World Ceria–zirconia Mixed Oxide Catalyst Production by Shape (2021-2032)

6.3.2 World Ceria–zirconia Mixed Oxide Catalyst Production Value by Shape (2021-2032)

6.3.3 World Ceria–zirconia Mixed Oxide Catalyst Average Price by Shape (2021-2032)

7 MARKET ANALYSIS BY CARRIER

7.1 World Ceria–zirconia Mixed Oxide Catalyst Market Size Overview by Carrier: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Carrier

7.2.1 Standard Type

7.2.2 Alumina-Supported

7.3 Market Segment by Carrier

7.3.1 World Ceria–zirconia Mixed Oxide Catalyst Production by Carrier (2021-2032)

7.3.2 World Ceria–zirconia Mixed Oxide Catalyst Production Value by Carrier (2021-2032)

7.3.3 World Ceria–zirconia Mixed Oxide Catalyst Average Price by Carrier (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Ceria–zirconia Mixed Oxide Catalyst Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive Exhaust Purification

8.2.2 Industrial Catalysis

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Ceria–zirconia Mixed Oxide Catalyst Production by Application
(2021-2032)

8.3.2 World Ceria–zirconia Mixed Oxide Catalyst Production Value by Application
(2021-2032)

8.3.3 World Ceria–zirconia Mixed Oxide Catalyst Average Price by Application
(2021-2032)

9 COMPANY PROFILES

9.1 Solvay

9.1.1 Solvay Details

9.1.2 Solvay Major Business

9.1.3 Solvay Ceria–zirconia Mixed Oxide Catalyst Product and Services

9.1.4 Solvay Ceria–zirconia Mixed Oxide Catalyst Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.1.5 Solvay Recent Developments/Updates

9.1.6 Solvay Competitive Strengths & Weaknesses

9.2 DKKK

9.2.1 DKKK Details

9.2.2 DKKK Major Business

9.2.3 DKKK Ceria–zirconia Mixed Oxide Catalyst Product and Services

9.2.4 DKKK Ceria–zirconia Mixed Oxide Catalyst Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.2.5 DKKK Recent Developments/Updates

9.2.6 DKKK Competitive Strengths & Weaknesses

9.3 Neo Performance Materials

9.3.1 Neo Performance Materials Details

9.3.2 Neo Performance Materials Major Business

9.3.3 Neo Performance Materials Ceria–zirconia Mixed Oxide Catalyst Product and
Services

9.3.4 Neo Performance Materials Ceria–zirconia Mixed Oxide Catalyst Production,
Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Neo Performance Materials Recent Developments/Updates

9.3.6 Neo Performance Materials Competitive Strengths & Weaknesses

9.4 Luxfer MEL Technologies

9.4.1 Luxfer MEL Technologies Details

9.4.2 Luxfer MEL Technologies Major Business

9.4.3 Luxfer MEL Technologies Ceria–zirconia Mixed Oxide Catalyst Product and Services

9.4.4 Luxfer MEL Technologies Ceria–zirconia Mixed Oxide Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Luxfer MEL Technologies Recent Developments/Updates

9.4.6 Luxfer MEL Technologies Competitive Strengths & Weaknesses

9.5 PIDC

9.5.1 PIDC Details

9.5.2 PIDC Major Business

9.5.3 PIDC Ceria–zirconia Mixed Oxide Catalyst Product and Services

9.5.4 PIDC Ceria–zirconia Mixed Oxide Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 PIDC Recent Developments/Updates

9.5.6 PIDC Competitive Strengths & Weaknesses

9.6 Inner Mongolia Baotou Steel Rare-earth

9.6.1 Inner Mongolia Baotou Steel Rare-earth Details

9.6.2 Inner Mongolia Baotou Steel Rare-earth Major Business

9.6.3 Inner Mongolia Baotou Steel Rare-earth Ceria–zirconia Mixed Oxide Catalyst Product and Services

9.6.4 Inner Mongolia Baotou Steel Rare-earth Ceria–zirconia Mixed Oxide Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Inner Mongolia Baotou Steel Rare-earth Recent Developments/Updates

9.6.6 Inner Mongolia Baotou Steel Rare-earth Competitive Strengths & Weaknesses

9.7 Sinocera Functional Material

9.7.1 Sinocera Functional Material Details

9.7.2 Sinocera Functional Material Major Business

9.7.3 Sinocera Functional Material Ceria–zirconia Mixed Oxide Catalyst Product and Services

9.7.4 Sinocera Functional Material Ceria–zirconia Mixed Oxide Catalyst Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Sinocera Functional Material Recent Developments/Updates

9.7.6 Sinocera Functional Material Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Ceria–zirconia Mixed Oxide Catalyst Industry Chain

- 10.2 Ceria–zirconia Mixed Oxide Catalyst Upstream Analysis
 - 10.2.1 Ceria–zirconia Mixed Oxide Catalyst Core Raw Materials
 - 10.2.2 Main Manufacturers of Ceria–zirconia Mixed Oxide Catalyst Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Ceria–zirconia Mixed Oxide Catalyst Production Mode
- 10.6 Ceria–zirconia Mixed Oxide Catalyst Procurement Model
- 10.7 Ceria–zirconia Mixed Oxide Catalyst Industry Sales Model and Sales Channels
 - 10.7.1 Ceria–zirconia Mixed Oxide Catalyst Sales Model
 - 10.7.2 Ceria–zirconia Mixed Oxide Catalyst Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Region (2021-2026) & (USD Million)

Table 3. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Region (2027-2032) & (USD Million)

Table 4. World Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share by Region (2021-2026)

Table 5. World Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share by Region (2027-2032)

Table 6. World Ceria–zirconia Mixed Oxide Catalyst Production by Region (2021-2026) & (Tons)

Table 7. World Ceria–zirconia Mixed Oxide Catalyst Production by Region (2027-2032) & (Tons)

Table 8. World Ceria–zirconia Mixed Oxide Catalyst Production Market Share by Region (2021-2026)

Table 9. World Ceria–zirconia Mixed Oxide Catalyst Production Market Share by Region (2027-2032)

Table 10. World Ceria–zirconia Mixed Oxide Catalyst Average Price by Region (2021-2026) & (US\$/Kg)

Table 11. World Ceria–zirconia Mixed Oxide Catalyst Average Price by Region (2027-2032) & (US\$/Kg)

Table 12. Ceria–zirconia Mixed Oxide Catalyst Major Market Trends

Table 13. World Ceria–zirconia Mixed Oxide Catalyst Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Ceria–zirconia Mixed Oxide Catalyst Consumption by Region (2021-2026) & (Tons)

Table 15. World Ceria–zirconia Mixed Oxide Catalyst Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Ceria–zirconia Mixed Oxide Catalyst Producers in 2025

Table 18. World Ceria–zirconia Mixed Oxide Catalyst Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Ceria–zirconia Mixed Oxide Catalyst Producers in 2025

Table 20. World Ceria–zirconia Mixed Oxide Catalyst Average Price by Manufacturer (2021-2026) & (US\$/Kg)

Table 21. Global Ceria–zirconia Mixed Oxide Catalyst Company Evaluation Quadrant

Table 22. World Ceria–zirconia Mixed Oxide Catalyst Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Ceria–zirconia Mixed Oxide Catalyst Production Site of Key Manufacturer

Table 24. Ceria–zirconia Mixed Oxide Catalyst Market: Company Product Type Footprint

Table 25. Ceria–zirconia Mixed Oxide Catalyst Market: Company Product Application Footprint

Table 26. Ceria–zirconia Mixed Oxide Catalyst Competitive Factors

Table 27. Ceria–zirconia Mixed Oxide Catalyst New Entrant and Capacity Expansion Plans

Table 28. Ceria–zirconia Mixed Oxide Catalyst Mergers & Acquisitions Activity

Table 29. United States VS China Ceria–zirconia Mixed Oxide Catalyst Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Ceria–zirconia Mixed Oxide Catalyst Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Ceria–zirconia Mixed Oxide Catalyst Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Ceria–zirconia Mixed Oxide Catalyst Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production Market Share (2021-2026)

Table 37. China Based Ceria–zirconia Mixed Oxide Catalyst Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production Market Share (2021-2026)

Table 42. Rest of World Based Ceria–zirconia Mixed Oxide Catalyst Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production Market Share (2021-2026)

Table 47. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Ceria–zirconia Mixed Oxide Catalyst Production by Type (2021-2026) & (Tons)

Table 49. World Ceria–zirconia Mixed Oxide Catalyst Production by Type (2027-2032) & (Tons)

Table 50. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Type (2021-2026) & (USD Million)

Table 51. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Type (2027-2032) & (USD Million)

Table 52. World Ceria–zirconia Mixed Oxide Catalyst Average Price by Type (2021-2026) & (US\$/Kg)

Table 53. World Ceria–zirconia Mixed Oxide Catalyst Average Price by Type (2027-2032) & (US\$/Kg)

Table 54. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Shape, (USD Million), 2021 & 2025 & 2032

Table 55. World Ceria–zirconia Mixed Oxide Catalyst Production by Shape (2021-2026) & (Tons)

Table 56. World Ceria–zirconia Mixed Oxide Catalyst Production by Shape (2027-2032) & (Tons)

Table 57. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Shape (2021-2026) & (USD Million)

Table 58. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Shape (2027-2032) & (USD Million)

Table 59. World Ceria–zirconia Mixed Oxide Catalyst Average Price by Shape

(2021-2026) & (US\$/Kg)

Table 60. World Ceria–zirconia Mixed Oxide Catalyst Average Price by Shape

(2027-2032) & (US\$/Kg)

Table 61. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Carrier, (USD Million), 2021 & 2025 & 2032

Table 62. World Ceria–zirconia Mixed Oxide Catalyst Production by Carrier (2021-2026) & (Tons)

Table 63. World Ceria–zirconia Mixed Oxide Catalyst Production by Carrier (2027-2032) & (Tons)

Table 64. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Carrier (2021-2026) & (USD Million)

Table 65. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Carrier (2027-2032) & (USD Million)

Table 66. World Ceria–zirconia Mixed Oxide Catalyst Average Price by Carrier (2021-2026) & (US\$/Kg)

Table 67. World Ceria–zirconia Mixed Oxide Catalyst Average Price by Carrier (2027-2032) & (US\$/Kg)

Table 68. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Ceria–zirconia Mixed Oxide Catalyst Production by Application (2021-2026) & (Tons)

Table 70. World Ceria–zirconia Mixed Oxide Catalyst Production by Application (2027-2032) & (Tons)

Table 71. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Application (2021-2026) & (USD Million)

Table 72. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Application (2027-2032) & (USD Million)

Table 73. World Ceria–zirconia Mixed Oxide Catalyst Average Price by Application (2021-2026) & (US\$/Kg)

Table 74. World Ceria–zirconia Mixed Oxide Catalyst Average Price by Application (2027-2032) & (US\$/Kg)

Table 75. Solvay Basic Information, Manufacturing Base and Competitors

Table 76. Solvay Major Business

Table 77. Solvay Ceria–zirconia Mixed Oxide Catalyst Product and Services

Table 78. Solvay Ceria–zirconia Mixed Oxide Catalyst Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Solvay Recent Developments/Updates

Table 80. Solvay Competitive Strengths & Weaknesses

Table 81. DKKK Basic Information, Manufacturing Base and Competitors

- Table 82. DKKK Major Business
- Table 83. DKKK Ceria–zirconia Mixed Oxide Catalyst Product and Services
- Table 84. DKKK Ceria–zirconia Mixed Oxide Catalyst Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. DKKK Recent Developments/Updates
- Table 86. DKKK Competitive Strengths & Weaknesses
- Table 87. Neo Performance Materials Basic Information, Manufacturing Base and Competitors
- Table 88. Neo Performance Materials Major Business
- Table 89. Neo Performance Materials Ceria–zirconia Mixed Oxide Catalyst Product and Services
- Table 90. Neo Performance Materials Ceria–zirconia Mixed Oxide Catalyst Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Neo Performance Materials Recent Developments/Updates
- Table 92. Neo Performance Materials Competitive Strengths & Weaknesses
- Table 93. Luxfer MEL Technologies Basic Information, Manufacturing Base and Competitors
- Table 94. Luxfer MEL Technologies Major Business
- Table 95. Luxfer MEL Technologies Ceria–zirconia Mixed Oxide Catalyst Product and Services
- Table 96. Luxfer MEL Technologies Ceria–zirconia Mixed Oxide Catalyst Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Luxfer MEL Technologies Recent Developments/Updates
- Table 98. Luxfer MEL Technologies Competitive Strengths & Weaknesses
- Table 99. PIDC Basic Information, Manufacturing Base and Competitors
- Table 100. PIDC Major Business
- Table 101. PIDC Ceria–zirconia Mixed Oxide Catalyst Product and Services
- Table 102. PIDC Ceria–zirconia Mixed Oxide Catalyst Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. PIDC Recent Developments/Updates
- Table 104. PIDC Competitive Strengths & Weaknesses
- Table 105. Inner Mongolia Baotou Steel Rare-earth Basic Information, Manufacturing Base and Competitors
- Table 106. Inner Mongolia Baotou Steel Rare-earth Major Business
- Table 107. Inner Mongolia Baotou Steel Rare-earth Ceria–zirconia Mixed Oxide Catalyst Product and Services
- Table 108. Inner Mongolia Baotou Steel Rare-earth Ceria–zirconia Mixed Oxide

Catalyst Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Inner Mongolia Baotou Steel Rare-earth Recent Developments/Updates

Table 110. Inner Mongolia Baotou Steel Rare-earth Competitive Strengths & Weaknesses

Table 111. Sinocera Functional Material Basic Information, Manufacturing Base and Competitors

Table 112. Sinocera Functional Material Major Business

Table 113. Sinocera Functional Material Ceria–zirconia Mixed Oxide Catalyst Product and Services

Table 114. Sinocera Functional Material Ceria–zirconia Mixed Oxide Catalyst Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Sinocera Functional Material Recent Developments/Updates

Table 116. Sinocera Functional Material Competitive Strengths & Weaknesses

Table 117. Global Key Players of Ceria–zirconia Mixed Oxide Catalyst Upstream (Raw Materials)

Table 118. Global Ceria–zirconia Mixed Oxide Catalyst Typical Customers

Table 119. Ceria–zirconia Mixed Oxide Catalyst Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Ceria–zirconia Mixed Oxide Catalyst Picture
- Figure 2. World Ceria–zirconia Mixed Oxide Catalyst Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Ceria–zirconia Mixed Oxide Catalyst Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Ceria–zirconia Mixed Oxide Catalyst Production (2021-2032) & (Tons)
- Figure 5. World Ceria–zirconia Mixed Oxide Catalyst Average Price (2021-2032) & (US\$/Kg)
- Figure 6. World Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share by Region (2021-2032)
- Figure 7. World Ceria–zirconia Mixed Oxide Catalyst Production Market Share by Region (2021-2032)
- Figure 8. North America Ceria–zirconia Mixed Oxide Catalyst Production (2021-2032) & (Tons)
- Figure 9. Europe Ceria–zirconia Mixed Oxide Catalyst Production (2021-2032) & (Tons)
- Figure 10. China Ceria–zirconia Mixed Oxide Catalyst Production (2021-2032) & (Tons)
- Figure 11. Japan Ceria–zirconia Mixed Oxide Catalyst Production (2021-2032) & (Tons)
- Figure 12. Ceria–zirconia Mixed Oxide Catalyst Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Ceria–zirconia Mixed Oxide Catalyst Consumption (2021-2032) & (Tons)
- Figure 15. World Ceria–zirconia Mixed Oxide Catalyst Consumption Market Share by Region (2021-2032)
- Figure 16. United States Ceria–zirconia Mixed Oxide Catalyst Consumption (2021-2032) & (Tons)
- Figure 17. China Ceria–zirconia Mixed Oxide Catalyst Consumption (2021-2032) & (Tons)
- Figure 18. Europe Ceria–zirconia Mixed Oxide Catalyst Consumption (2021-2032) & (Tons)
- Figure 19. Japan Ceria–zirconia Mixed Oxide Catalyst Consumption (2021-2032) & (Tons)
- Figure 20. South Korea Ceria–zirconia Mixed Oxide Catalyst Consumption (2021-2032) & (Tons)
- Figure 21. ASEAN Ceria–zirconia Mixed Oxide Catalyst Consumption (2021-2032) & (Tons)

Figure 22. India Ceria–zirconia Mixed Oxide Catalyst Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Ceria–zirconia Mixed Oxide Catalyst by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Ceria–zirconia Mixed Oxide Catalyst Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Ceria–zirconia Mixed Oxide Catalyst Markets in 2025

Figure 26. United States VS China: Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Ceria–zirconia Mixed Oxide Catalyst Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Ceria–zirconia Mixed Oxide Catalyst Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production Market Share 2025

Figure 30. China Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Ceria–zirconia Mixed Oxide Catalyst Production Market Share 2025

Figure 32. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share by Type in 2025

Figure 34. High Zirconium Content (Zirconium Compound ?50%)

Figure 35. High Cerium Content (Cerium Compound ?50%)

Figure 36. Balanced Ce-Zr

Figure 37. World Ceria–zirconia Mixed Oxide Catalyst Production Market Share by Type (2021-2032)

Figure 38. World Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share by Type (2021-2032)

Figure 39. World Ceria–zirconia Mixed Oxide Catalyst Average Price by Type (2021-2032) & (US\$/Kg)

Figure 40. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Shape, (USD Million), 2021 & 2025 & 2032

Figure 41. World Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share by Shape in 2025

Figure 42. Powders / Granules

Figure 43. Slurries / Dispersions

Figure 44. World Ceria–zirconia Mixed Oxide Catalyst Production Market Share by Shape (2021-2032)

Figure 45. World Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share by Shape (2021-2032)

Figure 46. World Ceria–zirconia Mixed Oxide Catalyst Average Price by Shape (2021-2032) & (US\$/Kg)

Figure 47. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Carrier, (USD Million), 2021 & 2025 & 2032

Figure 48. World Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share by Carrier in 2025

Figure 49. Standard Type

Figure 50. Alumina-Supported

Figure 51. World Ceria–zirconia Mixed Oxide Catalyst Production Market Share by Carrier (2021-2032)

Figure 52. World Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share by Carrier (2021-2032)

Figure 53. World Ceria–zirconia Mixed Oxide Catalyst Average Price by Carrier (2021-2032) & (US\$/Kg)

Figure 54. World Ceria–zirconia Mixed Oxide Catalyst Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share by Application in 2025

Figure 56. Automotive Exhaust Purification

Figure 57. Industrial Catalysis

Figure 58. Others

Figure 59. World Ceria–zirconia Mixed Oxide Catalyst Production Market Share by Application (2021-2032)

Figure 60. World Ceria–zirconia Mixed Oxide Catalyst Production Value Market Share by Application (2021-2032)

Figure 61. World Ceria–zirconia Mixed Oxide Catalyst Average Price by Application (2021-2032) & (US\$/Kg)

Figure 62. Ceria–zirconia Mixed Oxide Catalyst Industry Chain

Figure 63. Ceria–zirconia Mixed Oxide Catalyst Procurement Model

Figure 64. Ceria–zirconia Mixed Oxide Catalyst Sales Model

Figure 65. Ceria–zirconia Mixed Oxide Catalyst Sales Channels, Direct Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

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