

Global Oxide-based Solid Electrolyte Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Oxide-based Solid Electrolyte market size is expected to reach \$ 318 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

Oxide-based solid electrolyte refers to a class of inorganic solid materials composed primarily of metal oxides (such as lithium, sodium, zirconium, or lanthanum oxides) that conduct ionic charge carriers—typically lithium or sodium ions—while suppressing electronic conductivity, enabling their use in solid-state batteries (SSBs) and other electrochemical devices. These electrolytes exhibit high thermal stability, chemical inertness, and mechanical rigidity, addressing safety concerns like flammability and leakage associated with liquid electrolytes in conventional batteries. Structurally, they often adopt crystalline or glass-ceramic frameworks with lattice defects or open channels that facilitate ion migration; examples include perovskite-type (e.g., LiLaZrTaO), garnet-type (e.g., $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$, LLZO), and NASICON-type (e.g., $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$, LATP) oxides. Oxide-based solid electrolytes can be synthesized via high-temperature solid-state reactions, sol-gel processes, or thin-film deposition, and their performance is influenced by factors like grain boundary resistance, density, and interfacial compatibility with electrodes. While challenges such as brittle mechanical properties and electrode/electrolyte interfacial resistance persist, ongoing research focuses on nanostructuring, dopant engineering, and composite designs (e.g., hybridizing with polymers or sulfides) to enhance ion conductivity (targeting $>10^{-2}$ S/cm) and practical scalability for next-generation energy storage systems.

This report studies the global Oxide-based Solid Electrolyte production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Oxide-based Solid Electrolyte 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 Oxide-based Solid Electrolyte that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Oxide-based Solid Electrolyte total production and demand, 2021-2032, (Tons)

Global Oxide-based Solid Electrolyte total production value, 2021-2032, (USD Million)

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

Global Oxide-based Solid Electrolyte consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Oxide-based Solid Electrolyte domestic production, consumption, key domestic manufacturers and share

Global Oxide-based Solid Electrolyte production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Oxide-based Solid Electrolyte production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Oxide-based Solid Electrolyte production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Oxide-based Solid Electrolyte 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 NEI Corporation, OHARA, Ganfeng Lithium, Canon Optron, Inc., TOHO TITANIUM CO., LTD., TAIYO YUDEN, TDK, FDK, NGK Insulators, Nippon Electric Glass, 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 Oxide-based Solid Electrolyte 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 Oxide-based Solid Electrolyte Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Oxide-based Solid Electrolyte Market, Segmentation by Type:

Perovskite-Type Oxides

Garnet-Type Oxides

NASICON-Type Oxides

Others

Global Oxide-based Solid Electrolyte Market, Segmentation by Application:

Solid-State Batteries (SSBs)

Solid Oxide Fuel Cells (SOFCs)

Electrochemical Sensors

Membrane Separation Systems

Others

Companies Profiled:

NEI Corporation

OHARA

Ganfeng Lithium

Canon Optron, Inc.

TOHO TITANIUM CO., LTD.

TAIYO YUDEN

TDK

FDK

NGK Insulators

Nippon Electric Glass

Shanghai Kysonergy

Shenzhen Xinyuanbang

BTR

DOWA

Ampcera

XTC New Energy Materials

Key Questions Answered:

1. How big is the global Oxide-based Solid Electrolyte market?
2. What is the demand of the global Oxide-based Solid Electrolyte market?
3. What is the year over year growth of the global Oxide-based Solid Electrolyte market?
4. What is the production and production value of the global Oxide-based Solid Electrolyte market?
5. Who are the key producers in the global Oxide-based Solid Electrolyte market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Oxide-based Solid Electrolyte Demand (2021-2032)
- 2.2 World Oxide-based Solid Electrolyte Consumption by Region
 - 2.2.1 World Oxide-based Solid Electrolyte Consumption by Region (2021-2026)
 - 2.2.2 World Oxide-based Solid Electrolyte Consumption Forecast by Region (2027-2032)
- 2.3 United States Oxide-based Solid Electrolyte Consumption (2021-2032)
- 2.4 China Oxide-based Solid Electrolyte Consumption (2021-2032)
- 2.5 Europe Oxide-based Solid Electrolyte Consumption (2021-2032)
- 2.6 Japan Oxide-based Solid Electrolyte Consumption (2021-2032)
- 2.7 South Korea Oxide-based Solid Electrolyte Consumption (2021-2032)
- 2.8 ASEAN Oxide-based Solid Electrolyte Consumption (2021-2032)
- 2.9 India Oxide-based Solid Electrolyte Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Oxide-based Solid Electrolyte Production Value by Manufacturer (2021-2026)
- 3.2 World Oxide-based Solid Electrolyte Production by Manufacturer (2021-2026)
- 3.3 World Oxide-based Solid Electrolyte Average Price by Manufacturer (2021-2026)
- 3.4 Oxide-based Solid Electrolyte Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Oxide-based Solid Electrolyte Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Oxide-based Solid Electrolyte in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Oxide-based Solid Electrolyte in 2025
- 3.6 Oxide-based Solid Electrolyte Market: Overall Company Footprint Analysis
 - 3.6.1 Oxide-based Solid Electrolyte Market: Region Footprint
 - 3.6.2 Oxide-based Solid Electrolyte Market: Company Product Type Footprint
 - 3.6.3 Oxide-based Solid Electrolyte 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: Oxide-based Solid Electrolyte Production Value Comparison
 - 4.1.1 United States VS China: Oxide-based Solid Electrolyte Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Oxide-based Solid Electrolyte Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Oxide-based Solid Electrolyte Production Comparison
 - 4.2.1 United States VS China: Oxide-based Solid Electrolyte Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Oxide-based Solid Electrolyte Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Oxide-based Solid Electrolyte Consumption Comparison
 - 4.3.1 United States VS China: Oxide-based Solid Electrolyte Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Oxide-based Solid Electrolyte Consumption Market

Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Oxide-based Solid Electrolyte Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Oxide-based Solid Electrolyte Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Oxide-based Solid Electrolyte Production Value (2021-2026)

4.4.3 United States Based Manufacturers Oxide-based Solid Electrolyte Production (2021-2026)

4.5 China Based Oxide-based Solid Electrolyte Manufacturers and Market Share

4.5.1 China Based Oxide-based Solid Electrolyte Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Oxide-based Solid Electrolyte Production Value (2021-2026)

4.5.3 China Based Manufacturers Oxide-based Solid Electrolyte Production (2021-2026)

4.6 Rest of World Based Oxide-based Solid Electrolyte Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Oxide-based Solid Electrolyte Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Oxide-based Solid Electrolyte Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Oxide-based Solid Electrolyte Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Oxide-based Solid Electrolyte Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Perovskite-Type Oxides

5.2.2 Garnet-Type Oxides

5.2.3 NASICON-Type Oxides

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Oxide-based Solid Electrolyte Production by Type (2021-2032)

5.3.2 World Oxide-based Solid Electrolyte Production Value by Type (2021-2032)

5.3.3 World Oxide-based Solid Electrolyte Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Oxide-based Solid Electrolyte Market Size Overview by Application: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Application

6.2.1 Solid-State Batteries (SSBs)

6.2.2 Solid Oxide Fuel Cells (SOFCs)

6.2.3 Electrochemical Sensors

6.2.4 Membrane Separation Systems

6.2.5 Others

6.3 Market Segment by Application

6.3.1 World Oxide-based Solid Electrolyte Production by Application (2021-2032)

6.3.2 World Oxide-based Solid Electrolyte Production Value by Application (2021-2032)

6.3.3 World Oxide-based Solid Electrolyte Average Price by Application (2021-2032)

7 COMPANY PROFILES

7.1 NEI Corporation

7.1.1 NEI Corporation Details

7.1.2 NEI Corporation Major Business

7.1.3 NEI Corporation Oxide-based Solid Electrolyte Product and Services

7.1.4 NEI Corporation Oxide-based Solid Electrolyte Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.1.5 NEI Corporation Recent Developments/Updates

7.1.6 NEI Corporation Competitive Strengths & Weaknesses

7.2 OHARA

7.2.1 OHARA Details

7.2.2 OHARA Major Business

7.2.3 OHARA Oxide-based Solid Electrolyte Product and Services

7.2.4 OHARA Oxide-based Solid Electrolyte Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.2.5 OHARA Recent Developments/Updates

7.2.6 OHARA Competitive Strengths & Weaknesses

7.3 Ganfeng Lithium

7.3.1 Ganfeng Lithium Details

7.3.2 Ganfeng Lithium Major Business

7.3.3 Ganfeng Lithium Oxide-based Solid Electrolyte Product and Services

7.3.4 Ganfeng Lithium Oxide-based Solid Electrolyte Production, Price, Value, Gross

Margin and Market Share (2021-2026)

7.3.5 Ganfeng Lithium Recent Developments/Updates

7.3.6 Ganfeng Lithium Competitive Strengths & Weaknesses

7.4 Canon Optron, Inc.

7.4.1 Canon Optron, Inc. Details

7.4.2 Canon Optron, Inc. Major Business

7.4.3 Canon Optron, Inc. Oxide-based Solid Electrolyte Product and Services

7.4.4 Canon Optron, Inc. Oxide-based Solid Electrolyte Production, Price, Value,

Gross Margin and Market Share (2021-2026)

7.4.5 Canon Optron, Inc. Recent Developments/Updates

7.4.6 Canon Optron, Inc. Competitive Strengths & Weaknesses

7.5 TOHO TITANIUM CO., LTD.

7.5.1 TOHO TITANIUM CO., LTD. Details

7.5.2 TOHO TITANIUM CO., LTD. Major Business

7.5.3 TOHO TITANIUM CO., LTD. Oxide-based Solid Electrolyte Product and Services

7.5.4 TOHO TITANIUM CO., LTD. Oxide-based Solid Electrolyte Production, Price,

Value, Gross Margin and Market Share (2021-2026)

7.5.5 TOHO TITANIUM CO., LTD. Recent Developments/Updates

7.5.6 TOHO TITANIUM CO., LTD. Competitive Strengths & Weaknesses

7.6 TAIYO YUDEN

7.6.1 TAIYO YUDEN Details

7.6.2 TAIYO YUDEN Major Business

7.6.3 TAIYO YUDEN Oxide-based Solid Electrolyte Product and Services

7.6.4 TAIYO YUDEN Oxide-based Solid Electrolyte Production, Price, Value, Gross

Margin and Market Share (2021-2026)

7.6.5 TAIYO YUDEN Recent Developments/Updates

7.6.6 TAIYO YUDEN Competitive Strengths & Weaknesses

7.7 TDK

7.7.1 TDK Details

7.7.2 TDK Major Business

7.7.3 TDK Oxide-based Solid Electrolyte Product and Services

7.7.4 TDK Oxide-based Solid Electrolyte Production, Price, Value, Gross Margin and

Market Share (2021-2026)

7.7.5 TDK Recent Developments/Updates

7.7.6 TDK Competitive Strengths & Weaknesses

7.8 FDK

7.8.1 FDK Details

7.8.2 FDK Major Business

7.8.3 FDK Oxide-based Solid Electrolyte Product and Services

7.8.4 FDK Oxide-based Solid Electrolyte Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.8.5 FDK Recent Developments/Updates

7.8.6 FDK Competitive Strengths & Weaknesses

7.9 NGK Insulators

7.9.1 NGK Insulators Details

7.9.2 NGK Insulators Major Business

7.9.3 NGK Insulators Oxide-based Solid Electrolyte Product and Services

7.9.4 NGK Insulators Oxide-based Solid Electrolyte Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.9.5 NGK Insulators Recent Developments/Updates

7.9.6 NGK Insulators Competitive Strengths & Weaknesses

7.10 Nippon Electric Glass

7.10.1 Nippon Electric Glass Details

7.10.2 Nippon Electric Glass Major Business

7.10.3 Nippon Electric Glass Oxide-based Solid Electrolyte Product and Services

7.10.4 Nippon Electric Glass Oxide-based Solid Electrolyte Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.10.5 Nippon Electric Glass Recent Developments/Updates

7.10.6 Nippon Electric Glass Competitive Strengths & Weaknesses

7.11 Shanghai Kysonergy

7.11.1 Shanghai Kysonergy Details

7.11.2 Shanghai Kysonergy Major Business

7.11.3 Shanghai Kysonergy Oxide-based Solid Electrolyte Product and Services

7.11.4 Shanghai Kysonergy Oxide-based Solid Electrolyte Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.11.5 Shanghai Kysonergy Recent Developments/Updates

7.11.6 Shanghai Kysonergy Competitive Strengths & Weaknesses

7.12 Shenzhen Xinyuanbang

7.12.1 Shenzhen Xinyuanbang Details

7.12.2 Shenzhen Xinyuanbang Major Business

7.12.3 Shenzhen Xinyuanbang Oxide-based Solid Electrolyte Product and Services

7.12.4 Shenzhen Xinyuanbang Oxide-based Solid Electrolyte Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.12.5 Shenzhen Xinyuanbang Recent Developments/Updates

7.12.6 Shenzhen Xinyuanbang Competitive Strengths & Weaknesses

7.13 BTR

7.13.1 BTR Details

7.13.2 BTR Major Business

- 7.13.3 BTR Oxide-based Solid Electrolyte Product and Services
- 7.13.4 BTR Oxide-based Solid Electrolyte Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 7.13.5 BTR Recent Developments/Updates
- 7.13.6 BTR Competitive Strengths & Weaknesses
- 7.14 DOWA
 - 7.14.1 DOWA Details
 - 7.14.2 DOWA Major Business
 - 7.14.3 DOWA Oxide-based Solid Electrolyte Product and Services
 - 7.14.4 DOWA Oxide-based Solid Electrolyte Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.14.5 DOWA Recent Developments/Updates
 - 7.14.6 DOWA Competitive Strengths & Weaknesses
- 7.15 Ampcera
 - 7.15.1 Ampcera Details
 - 7.15.2 Ampcera Major Business
 - 7.15.3 Ampcera Oxide-based Solid Electrolyte Product and Services
 - 7.15.4 Ampcera Oxide-based Solid Electrolyte Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.15.5 Ampcera Recent Developments/Updates
 - 7.15.6 Ampcera Competitive Strengths & Weaknesses
- 7.16 XTC New Energy Materials
 - 7.16.1 XTC New Energy Materials Details
 - 7.16.2 XTC New Energy Materials Major Business
 - 7.16.3 XTC New Energy Materials Oxide-based Solid Electrolyte Product and Services
 - 7.16.4 XTC New Energy Materials Oxide-based Solid Electrolyte Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.16.5 XTC New Energy Materials Recent Developments/Updates
 - 7.16.6 XTC New Energy Materials Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 Oxide-based Solid Electrolyte Industry Chain
- 8.2 Oxide-based Solid Electrolyte Upstream Analysis
 - 8.2.1 Oxide-based Solid Electrolyte Core Raw Materials
 - 8.2.2 Main Manufacturers of Oxide-based Solid Electrolyte Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Oxide-based Solid Electrolyte Production Mode

8.6 Oxide-based Solid Electrolyte Procurement Model

8.7 Oxide-based Solid Electrolyte Industry Sales Model and Sales Channels

8.7.1 Oxide-based Solid Electrolyte Sales Model

8.7.2 Oxide-based Solid Electrolyte Typical Distributors

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Oxide-based Solid Electrolyte Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Oxide-based Solid Electrolyte Production Value by Region (2021-2026) & (USD Million)

Table 3. World Oxide-based Solid Electrolyte Production Value by Region (2027-2032) & (USD Million)

Table 4. World Oxide-based Solid Electrolyte Production Value Market Share by Region (2021-2026)

Table 5. World Oxide-based Solid Electrolyte Production Value Market Share by Region (2027-2032)

Table 6. World Oxide-based Solid Electrolyte Production by Region (2021-2026) & (Tons)

Table 7. World Oxide-based Solid Electrolyte Production by Region (2027-2032) & (Tons)

Table 8. World Oxide-based Solid Electrolyte Production Market Share by Region (2021-2026)

Table 9. World Oxide-based Solid Electrolyte Production Market Share by Region (2027-2032)

Table 10. World Oxide-based Solid Electrolyte Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Oxide-based Solid Electrolyte Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Oxide-based Solid Electrolyte Major Market Trends

Table 13. World Oxide-based Solid Electrolyte Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Oxide-based Solid Electrolyte Consumption by Region (2021-2026) & (Tons)

Table 15. World Oxide-based Solid Electrolyte Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Oxide-based Solid Electrolyte Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Oxide-based Solid Electrolyte Producers in 2025

Table 18. World Oxide-based Solid Electrolyte Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Oxide-based Solid Electrolyte Producers in 2025

Table 20. World Oxide-based Solid Electrolyte Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Oxide-based Solid Electrolyte Company Evaluation Quadrant

Table 22. World Oxide-based Solid Electrolyte Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Oxide-based Solid Electrolyte Production Site of Key Manufacturer

Table 24. Oxide-based Solid Electrolyte Market: Company Product Type Footprint

Table 25. Oxide-based Solid Electrolyte Market: Company Product Application Footprint

Table 26. Oxide-based Solid Electrolyte Competitive Factors

Table 27. Oxide-based Solid Electrolyte New Entrant and Capacity Expansion Plans

Table 28. Oxide-based Solid Electrolyte Mergers & Acquisitions Activity

Table 29. United States VS China Oxide-based Solid Electrolyte Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Oxide-based Solid Electrolyte Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Oxide-based Solid Electrolyte Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Oxide-based Solid Electrolyte Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Oxide-based Solid Electrolyte Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Oxide-based Solid Electrolyte Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Oxide-based Solid Electrolyte Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Oxide-based Solid Electrolyte Production Market Share (2021-2026)

Table 37. China Based Oxide-based Solid Electrolyte Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Oxide-based Solid Electrolyte Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Oxide-based Solid Electrolyte Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Oxide-based Solid Electrolyte Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Oxide-based Solid Electrolyte Production Market

Share (2021-2026)

Table 42. Rest of World Based Oxide-based Solid Electrolyte Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Oxide-based Solid Electrolyte Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Oxide-based Solid Electrolyte Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Oxide-based Solid Electrolyte Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Oxide-based Solid Electrolyte Production Market Share (2021-2026)

Table 47. World Oxide-based Solid Electrolyte Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Oxide-based Solid Electrolyte Production by Type (2021-2026) & (Tons)

Table 49. World Oxide-based Solid Electrolyte Production by Type (2027-2032) & (Tons)

Table 50. World Oxide-based Solid Electrolyte Production Value by Type (2021-2026) & (USD Million)

Table 51. World Oxide-based Solid Electrolyte Production Value by Type (2027-2032) & (USD Million)

Table 52. World Oxide-based Solid Electrolyte Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Oxide-based Solid Electrolyte Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Oxide-based Solid Electrolyte Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 55. World Oxide-based Solid Electrolyte Production by Application (2021-2026) & (Tons)

Table 56. World Oxide-based Solid Electrolyte Production by Application (2027-2032) & (Tons)

Table 57. World Oxide-based Solid Electrolyte Production Value by Application (2021-2026) & (USD Million)

Table 58. World Oxide-based Solid Electrolyte Production Value by Application (2027-2032) & (USD Million)

Table 59. World Oxide-based Solid Electrolyte Average Price by Application (2021-2026) & (US\$/Ton)

Table 60. World Oxide-based Solid Electrolyte Average Price by Application (2027-2032) & (US\$/Ton)

Table 61. NEI Corporation Basic Information, Manufacturing Base and Competitors
Table 62. NEI Corporation Major Business
Table 63. NEI Corporation Oxide-based Solid Electrolyte Product and Services
Table 64. NEI Corporation Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 65. NEI Corporation Recent Developments/Updates
Table 66. NEI Corporation Competitive Strengths & Weaknesses
Table 67. OHARA Basic Information, Manufacturing Base and Competitors
Table 68. OHARA Major Business
Table 69. OHARA Oxide-based Solid Electrolyte Product and Services
Table 70. OHARA Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 71. OHARA Recent Developments/Updates
Table 72. OHARA Competitive Strengths & Weaknesses
Table 73. Ganfeng Lithium Basic Information, Manufacturing Base and Competitors
Table 74. Ganfeng Lithium Major Business
Table 75. Ganfeng Lithium Oxide-based Solid Electrolyte Product and Services
Table 76. Ganfeng Lithium Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 77. Ganfeng Lithium Recent Developments/Updates
Table 78. Ganfeng Lithium Competitive Strengths & Weaknesses
Table 79. Canon Optron, Inc. Basic Information, Manufacturing Base and Competitors
Table 80. Canon Optron, Inc. Major Business
Table 81. Canon Optron, Inc. Oxide-based Solid Electrolyte Product and Services
Table 82. Canon Optron, Inc. Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 83. Canon Optron, Inc. Recent Developments/Updates
Table 84. Canon Optron, Inc. Competitive Strengths & Weaknesses
Table 85. TOHO TITANIUM CO., LTD. Basic Information, Manufacturing Base and Competitors
Table 86. TOHO TITANIUM CO., LTD. Major Business
Table 87. TOHO TITANIUM CO., LTD. Oxide-based Solid Electrolyte Product and Services
Table 88. TOHO TITANIUM CO., LTD. Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. TOHO TITANIUM CO., LTD. Recent Developments/Updates
Table 90. TOHO TITANIUM CO., LTD. Competitive Strengths & Weaknesses
Table 91. TAIYO YUDEN Basic Information, Manufacturing Base and Competitors
Table 92. TAIYO YUDEN Major Business
Table 93. TAIYO YUDEN Oxide-based Solid Electrolyte Product and Services
Table 94. TAIYO YUDEN Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 95. TAIYO YUDEN Recent Developments/Updates
Table 96. TAIYO YUDEN Competitive Strengths & Weaknesses
Table 97. TDK Basic Information, Manufacturing Base and Competitors
Table 98. TDK Major Business
Table 99. TDK Oxide-based Solid Electrolyte Product and Services
Table 100. TDK Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 101. TDK Recent Developments/Updates
Table 102. TDK Competitive Strengths & Weaknesses
Table 103. FDK Basic Information, Manufacturing Base and Competitors
Table 104. FDK Major Business
Table 105. FDK Oxide-based Solid Electrolyte Product and Services
Table 106. FDK Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 107. FDK Recent Developments/Updates
Table 108. FDK Competitive Strengths & Weaknesses
Table 109. NGK Insulators Basic Information, Manufacturing Base and Competitors
Table 110. NGK Insulators Major Business
Table 111. NGK Insulators Oxide-based Solid Electrolyte Product and Services
Table 112. NGK Insulators Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 113. NGK Insulators Recent Developments/Updates
Table 114. NGK Insulators Competitive Strengths & Weaknesses
Table 115. Nippon Electric Glass Basic Information, Manufacturing Base and Competitors
Table 116. Nippon Electric Glass Major Business
Table 117. Nippon Electric Glass Oxide-based Solid Electrolyte Product and Services
Table 118. Nippon Electric Glass Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 119. Nippon Electric Glass Recent Developments/Updates
Table 120. Nippon Electric Glass Competitive Strengths & Weaknesses
Table 121. Shanghai Kysonergy Basic Information, Manufacturing Base and Competitors
Table 122. Shanghai Kysonergy Major Business
Table 123. Shanghai Kysonergy Oxide-based Solid Electrolyte Product and Services
Table 124. Shanghai Kysonergy Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 125. Shanghai Kysonergy Recent Developments/Updates
Table 126. Shanghai Kysonergy Competitive Strengths & Weaknesses
Table 127. Shenzhen Xinyuanbang Basic Information, Manufacturing Base and Competitors
Table 128. Shenzhen Xinyuanbang Major Business
Table 129. Shenzhen Xinyuanbang Oxide-based Solid Electrolyte Product and Services
Table 130. Shenzhen Xinyuanbang Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 131. Shenzhen Xinyuanbang Recent Developments/Updates
Table 132. Shenzhen Xinyuanbang Competitive Strengths & Weaknesses
Table 133. BTR Basic Information, Manufacturing Base and Competitors
Table 134. BTR Major Business
Table 135. BTR Oxide-based Solid Electrolyte Product and Services
Table 136. BTR Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 137. BTR Recent Developments/Updates
Table 138. BTR Competitive Strengths & Weaknesses
Table 139. DOWA Basic Information, Manufacturing Base and Competitors
Table 140. DOWA Major Business
Table 141. DOWA Oxide-based Solid Electrolyte Product and Services
Table 142. DOWA Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 143. DOWA Recent Developments/Updates
Table 144. DOWA Competitive Strengths & Weaknesses
Table 145. Ampcera Basic Information, Manufacturing Base and Competitors
Table 146. Ampcera Major Business
Table 147. Ampcera Oxide-based Solid Electrolyte Product and Services
Table 148. Ampcera Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 149. Ampcera Recent Developments/Updates

Table 150. Ampcera Competitive Strengths & Weaknesses

Table 151. XTC New Energy Materials Basic Information, Manufacturing Base and Competitors

Table 152. XTC New Energy Materials Major Business

Table 153. XTC New Energy Materials Oxide-based Solid Electrolyte Product and Services

Table 154. XTC New Energy Materials Oxide-based Solid Electrolyte Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 155. XTC New Energy Materials Recent Developments/Updates

Table 156. XTC New Energy Materials Competitive Strengths & Weaknesses

Table 157. Global Key Players of Oxide-based Solid Electrolyte Upstream (Raw Materials)

Table 158. Global Oxide-based Solid Electrolyte Typical Customers

Table 159. Oxide-based Solid Electrolyte Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Oxide-based Solid Electrolyte Picture

Figure 2. World Oxide-based Solid Electrolyte Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Oxide-based Solid Electrolyte Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Oxide-based Solid Electrolyte Production (2021-2032) & (Tons)

Figure 5. World Oxide-based Solid Electrolyte Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Oxide-based Solid Electrolyte Production Value Market Share by Region (2021-2032)

Figure 7. World Oxide-based Solid Electrolyte Production Market Share by Region (2021-2032)

Figure 8. North America Oxide-based Solid Electrolyte Production (2021-2032) & (Tons)

Figure 9. Europe Oxide-based Solid Electrolyte Production (2021-2032) & (Tons)

Figure 10. China Oxide-based Solid Electrolyte Production (2021-2032) & (Tons)

Figure 11. Japan Oxide-based Solid Electrolyte Production (2021-2032) & (Tons)

Figure 12. India Oxide-based Solid Electrolyte Production (2021-2032) & (Tons)

Figure 13. Southeast Asia Oxide-based Solid Electrolyte Production (2021-2032) & (Tons)

Figure 14. Oxide-based Solid Electrolyte Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Oxide-based Solid Electrolyte Consumption (2021-2032) & (Tons)

Figure 17. World Oxide-based Solid Electrolyte Consumption Market Share by Region (2021-2032)

Figure 18. United States Oxide-based Solid Electrolyte Consumption (2021-2032) & (Tons)

Figure 19. China Oxide-based Solid Electrolyte Consumption (2021-2032) & (Tons)

Figure 20. Europe Oxide-based Solid Electrolyte Consumption (2021-2032) & (Tons)

Figure 21. Japan Oxide-based Solid Electrolyte Consumption (2021-2032) & (Tons)

Figure 22. South Korea Oxide-based Solid Electrolyte Consumption (2021-2032) & (Tons)

Figure 23. ASEAN Oxide-based Solid Electrolyte Consumption (2021-2032) & (Tons)

Figure 24. India Oxide-based Solid Electrolyte Consumption (2021-2032) & (Tons)

Figure 25. Producer Shipments of Oxide-based Solid Electrolyte by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Oxide-based Solid

Electrolyte Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Oxide-based Solid Electrolyte Markets in 2025

Figure 28. United States VS China: Oxide-based Solid Electrolyte Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Oxide-based Solid Electrolyte Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Oxide-based Solid Electrolyte Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Oxide-based Solid Electrolyte Production Market Share 2025

Figure 32. China Based Manufacturers Oxide-based Solid Electrolyte Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Oxide-based Solid Electrolyte Production Market Share 2025

Figure 34. World Oxide-based Solid Electrolyte Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Oxide-based Solid Electrolyte Production Value Market Share by Type in 2025

Figure 36. Perovskite-Type Oxides

Figure 37. Garnet-Type Oxides

Figure 38. NASICON-Type Oxides

Figure 39. Others

Figure 40. World Oxide-based Solid Electrolyte Production Market Share by Type (2021-2032)

Figure 41. World Oxide-based Solid Electrolyte Production Value Market Share by Type (2021-2032)

Figure 42. World Oxide-based Solid Electrolyte Average Price by Type (2021-2032) & (US\$/Ton)

Figure 43. World Oxide-based Solid Electrolyte Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 44. World Oxide-based Solid Electrolyte Production Value Market Share by Application in 2025

Figure 45. Solid-State Batteries (SSBs)

Figure 46. Solid Oxide Fuel Cells (SOFCs)

Figure 47. Electrochemical Sensors

Figure 48. Membrane Separation Systems

Figure 49. Others

Figure 50. World Oxide-based Solid Electrolyte Production Market Share by Application

(2021-2032)

Figure 51. World Oxide-based Solid Electrolyte Production Value Market Share by Application (2021-2032)

Figure 52. World Oxide-based Solid Electrolyte Average Price by Application (2021-2032) & (US\$/Ton)

Figure 53. Oxide-based Solid Electrolyte Industry Chain

Figure 54. Oxide-based Solid Electrolyte Procurement Model

Figure 55. Oxide-based Solid Electrolyte Sales Model

Figure 56. Oxide-based Solid Electrolyte Sales Channels, Direct Sales, and Distribution

Figure 57. Methodology

Figure 58. Research Process and Data Source

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