

Global Solid-state Battery Electrolyte Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solid-state Battery Electrolyte Powder market size is expected to reach \$ 2608 million by 2032, rising at a market growth of 16.3% CAGR during the forecast period (2026-2032).

Solid-state Battery Electrolyte Powder refers to powdered solid electrolyte materials used in all-solid-state batteries, semi-solid batteries, lithium metal batteries, and next-generation lithium-ion batteries to conduct lithium ions between the cathode and anode while replacing or reducing the use of liquid electrolyte. These powders are typically processed into electrolyte layers, composite cathode mixtures, coating materials, separator coatings, or interfacial modification layers. In this report, the market mainly includes sulfide solid electrolyte powders, oxide solid electrolyte powders, halide solid electrolyte powders, phosphate-based solid electrolyte powders, garnet-type electrolyte powders, NASICON-type electrolyte powders, and composite solid electrolyte powders. The 2025 benchmark ASP is US\$420,000 / ton, shipment volume is 2.10k tons, and average gross margin is 44%. The upstream industry chain includes lithium sulfide, lithium salts, phosphorus sulfide, lanthanum compounds, zirconium compounds, titanium compounds, aluminum compounds, halide salts, ceramic precursors, solvents, dopants, and high-purity chemical raw materials. The midstream includes material formulation, solid-state synthesis, wet chemical synthesis, mechanical milling, calcination, particle size control, surface modification, drying, sieving, moisture control, packaging, and quality testing. The downstream includes electric vehicles, consumer electronics, energy storage systems, industrial batteries, aerospace and defense batteries, and solid-state battery research and pilot production.

Solid-state battery electrolyte powder is one of the core materials for next-generation battery systems because it determines ion transport, interfacial stability, safety

performance, and manufacturability. As battery developers move from laboratory cells toward pilot lines and early commercialization, demand is shifting from gram-scale research materials toward kilogram- and ton-scale materials with stable purity, controlled particle size, moisture resistance, and batch consistency. Sulfide electrolytes are attractive for high ionic conductivity and processability, while oxide and halide systems are valued for chemical stability, safety, and compatibility with different cell designs. Product development is moving toward higher ionic conductivity, lower interface resistance, better air stability, lower synthesis cost, scalable powder processing, and improved compatibility with dry electrode and composite cathode manufacturing.

This report studies the global Solid-state Battery Electrolyte Powder production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Solid-state Battery Electrolyte Powder total production and demand, 2021-2032, (Kilotons)

Global Solid-state Battery Electrolyte Powder total production value, 2021-2032, (USD Million)

Global Solid-state Battery Electrolyte Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Solid-state Battery Electrolyte Powder consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Solid-state Battery Electrolyte Powder domestic production, consumption, key domestic manufacturers and share

Global Solid-state Battery Electrolyte Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Solid-state Battery Electrolyte Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Solid-state Battery Electrolyte Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Solid-state Battery Electrolyte 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 Ampcera, NEI Corporation, Solid Power, Idemitsu Kosan, Mitsui Kinzoku, Toshima Manufacturing, Dongwha Electrolyte, Xnergy Materials, Qingtao Energy Development, ACEM, 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 Solid-state Battery Electrolyte Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Solid-state Battery Electrolyte Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solid-state Battery Electrolyte Powder Market, Segmentation by Type:

Sulfide Solid Electrolyte Powder

Oxide Solid Electrolyte Powder

Halide Solid Electrolyte Powder

Phosphate-Based Solid Electrolyte Powder

Composite Solid Electrolyte Powder

Global Solid-state Battery Electrolyte Powder Market, Segmentation by Particle Size:

Micron-Grade Electrolyte Powder

Submicron Electrolyte Powder

Nano-Grade Electrolyte Powder

Custom Particle Size Electrolyte Powder

Global Solid-state Battery Electrolyte Powder Market, Segmentation by Ionic Conductivity Level:

Standard Conductivity Electrolyte Powder

High Conductivity Electrolyte Powder

Ultra-High Conductivity Electrolyte Powder

Global Solid-state Battery Electrolyte Powder Market, Segmentation by Application:

Electric Vehicles

Consumer Electronics

Energy Storage Systems

Industrial Batteries

Aerospace & Defense Batteries

Others

Companies Profiled:

Ampcera

NEI Corporation

Solid Power

Idemitsu Kosan

Mitsui Kinzoku

Toshima Manufacturing

Dongwha Electrolyte

Xnergy Materials

Qingtao Energy Development

ACEM

Key Questions Answered:

1. How big is the global Solid-state Battery Electrolyte Powder market?
2. What is the demand of the global Solid-state Battery Electrolyte Powder market?
3. What is the year over year growth of the global Solid-state Battery Electrolyte Powder market?
4. What is the production and production value of the global Solid-state Battery

Electrolyte Powder market?

5. Who are the key producers in the global Solid-state Battery Electrolyte Powder market?

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Solid-state Battery Electrolyte Powder Demand (2021-2032)
- 2.2 World Solid-state Battery Electrolyte Powder Consumption by Region
 - 2.2.1 World Solid-state Battery Electrolyte Powder Consumption by Region (2021-2026)
 - 2.2.2 World Solid-state Battery Electrolyte Powder Consumption Forecast by Region (2027-2032)
- 2.3 United States Solid-state Battery Electrolyte Powder Consumption (2021-2032)
- 2.4 China Solid-state Battery Electrolyte Powder Consumption (2021-2032)
- 2.5 Europe Solid-state Battery Electrolyte Powder Consumption (2021-2032)

- 2.6 Japan Solid-state Battery Electrolyte Powder Consumption (2021-2032)
- 2.7 South Korea Solid-state Battery Electrolyte Powder Consumption (2021-2032)
- 2.8 ASEAN Solid-state Battery Electrolyte Powder Consumption (2021-2032)
- 2.9 India Solid-state Battery Electrolyte Powder Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

4.1.2 United States VS China: Solid-state Battery Electrolyte Powder Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Solid-state Battery Electrolyte Powder Production Comparison

4.2.1 United States VS China: Solid-state Battery Electrolyte Powder Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Solid-state Battery Electrolyte Powder Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Solid-state Battery Electrolyte Powder Consumption Comparison

4.3.1 United States VS China: Solid-state Battery Electrolyte Powder Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Solid-state Battery Electrolyte Powder Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Solid-state Battery Electrolyte Powder Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Solid-state Battery Electrolyte Powder Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Solid-state Battery Electrolyte Powder Production Value (2021-2026)

4.4.3 United States Based Manufacturers Solid-state Battery Electrolyte Powder Production (2021-2026)

4.5 China Based Solid-state Battery Electrolyte Powder Manufacturers and Market Share

4.5.1 China Based Solid-state Battery Electrolyte Powder Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Solid-state Battery Electrolyte Powder Production Value (2021-2026)

4.5.3 China Based Manufacturers Solid-state Battery Electrolyte Powder Production (2021-2026)

4.6 Rest of World Based Solid-state Battery Electrolyte Powder Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Solid-state Battery Electrolyte Powder Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Solid-state Battery Electrolyte Powder Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Solid-state Battery Electrolyte Powder Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Solid-state Battery Electrolyte Powder Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Sulfide Solid Electrolyte Powder

5.2.2 Oxide Solid Electrolyte Powder

5.2.3 Halide Solid Electrolyte Powder

5.2.4 Phosphate-Based Solid Electrolyte Powder

5.2.5 Composite Solid Electrolyte Powder

5.3 Market Segment by Type

5.3.1 World Solid-state Battery Electrolyte Powder Production by Type (2021-2032)

5.3.2 World Solid-state Battery Electrolyte Powder Production Value by Type (2021-2032)

5.3.3 World Solid-state Battery Electrolyte Powder Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PARTICLE SIZE

6.1 World Solid-state Battery Electrolyte Powder Market Size Overview by Particle Size: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Particle Size

6.2.1 Micron-Grade Electrolyte Powder

6.2.2 Submicron Electrolyte Powder

6.2.3 Nano-Grade Electrolyte Powder

6.2.4 Custom Particle Size Electrolyte Powder

6.3 Market Segment by Particle Size

6.3.1 World Solid-state Battery Electrolyte Powder Production by Particle Size (2021-2032)

6.3.2 World Solid-state Battery Electrolyte Powder Production Value by Particle Size (2021-2032)

6.3.3 World Solid-state Battery Electrolyte Powder Average Price by Particle Size (2021-2032)

7 MARKET ANALYSIS BY IONIC CONDUCTIVITY LEVEL

7.1 World Solid-state Battery Electrolyte Powder Market Size Overview by Ionic Conductivity Level: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Ionic Conductivity Level

7.2.1 Standard Conductivity Electrolyte Powder

- 7.2.2 High Conductivity Electrolyte Powder
- 7.2.3 Ultra-High Conductivity Electrolyte Powder
- 7.3 Market Segment by Ionic Conductivity Level
 - 7.3.1 World Solid-state Battery Electrolyte Powder Production by Ionic Conductivity Level (2021-2032)
 - 7.3.2 World Solid-state Battery Electrolyte Powder Production Value by Ionic Conductivity Level (2021-2032)
 - 7.3.3 World Solid-state Battery Electrolyte Powder Average Price by Ionic Conductivity Level (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Solid-state Battery Electrolyte Powder Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Electric Vehicles
 - 8.2.2 Consumer Electronics
 - 8.2.3 Energy Storage Systems
 - 8.2.4 Industrial Batteries
 - 8.2.5 Aerospace & Defense Batteries
 - 8.2.6 Others
- 8.3 Market Segment by Application
 - 8.3.1 World Solid-state Battery Electrolyte Powder Production by Application (2021-2032)
 - 8.3.2 World Solid-state Battery Electrolyte Powder Production Value by Application (2021-2032)
 - 8.3.3 World Solid-state Battery Electrolyte Powder Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Ampcera
 - 9.1.1 Ampcera Details
 - 9.1.2 Ampcera Major Business
 - 9.1.3 Ampcera Solid-state Battery Electrolyte Powder Product and Services
 - 9.1.4 Ampcera Solid-state Battery Electrolyte Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.1.5 Ampcera Recent Developments/Updates
 - 9.1.6 Ampcera Competitive Strengths & Weaknesses

9.2 NEI Corporation

9.2.1 NEI Corporation Details

9.2.2 NEI Corporation Major Business

9.2.3 NEI Corporation Solid-state Battery Electrolyte Powder Product and Services

9.2.4 NEI Corporation Solid-state Battery Electrolyte Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 NEI Corporation Recent Developments/Updates

9.2.6 NEI Corporation Competitive Strengths & Weaknesses

9.3 Solid Power

9.3.1 Solid Power Details

9.3.2 Solid Power Major Business

9.3.3 Solid Power Solid-state Battery Electrolyte Powder Product and Services

9.3.4 Solid Power Solid-state Battery Electrolyte Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Solid Power Recent Developments/Updates

9.3.6 Solid Power Competitive Strengths & Weaknesses

9.4 Idemitsu Kosan

9.4.1 Idemitsu Kosan Details

9.4.2 Idemitsu Kosan Major Business

9.4.3 Idemitsu Kosan Solid-state Battery Electrolyte Powder Product and Services

9.4.4 Idemitsu Kosan Solid-state Battery Electrolyte Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Idemitsu Kosan Recent Developments/Updates

9.4.6 Idemitsu Kosan Competitive Strengths & Weaknesses

9.5 Mitsui Kinzoku

9.5.1 Mitsui Kinzoku Details

9.5.2 Mitsui Kinzoku Major Business

9.5.3 Mitsui Kinzoku Solid-state Battery Electrolyte Powder Product and Services

9.5.4 Mitsui Kinzoku Solid-state Battery Electrolyte Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Mitsui Kinzoku Recent Developments/Updates

9.5.6 Mitsui Kinzoku Competitive Strengths & Weaknesses

9.6 Toshima Manufacturing

9.6.1 Toshima Manufacturing Details

9.6.2 Toshima Manufacturing Major Business

9.6.3 Toshima Manufacturing Solid-state Battery Electrolyte Powder Product and Services

9.6.4 Toshima Manufacturing Solid-state Battery Electrolyte Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.6.5 Toshima Manufacturing Recent Developments/Updates
- 9.6.6 Toshima Manufacturing Competitive Strengths & Weaknesses
- 9.7 Dongwha Electrolyte
 - 9.7.1 Dongwha Electrolyte Details
 - 9.7.2 Dongwha Electrolyte Major Business
 - 9.7.3 Dongwha Electrolyte Solid-state Battery Electrolyte Powder Product and Services
 - 9.7.4 Dongwha Electrolyte Solid-state Battery Electrolyte Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Dongwha Electrolyte Recent Developments/Updates
 - 9.7.6 Dongwha Electrolyte Competitive Strengths & Weaknesses
- 9.8 Xnergy Materials
 - 9.8.1 Xnergy Materials Details
 - 9.8.2 Xnergy Materials Major Business
 - 9.8.3 Xnergy Materials Solid-state Battery Electrolyte Powder Product and Services
 - 9.8.4 Xnergy Materials Solid-state Battery Electrolyte Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Xnergy Materials Recent Developments/Updates
 - 9.8.6 Xnergy Materials Competitive Strengths & Weaknesses
- 9.9 Qingtao Energy Development
 - 9.9.1 Qingtao Energy Development Details
 - 9.9.2 Qingtao Energy Development Major Business
 - 9.9.3 Qingtao Energy Development Solid-state Battery Electrolyte Powder Product and Services
 - 9.9.4 Qingtao Energy Development Solid-state Battery Electrolyte Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Qingtao Energy Development Recent Developments/Updates
 - 9.9.6 Qingtao Energy Development Competitive Strengths & Weaknesses
- 9.10 ACEM
 - 9.10.1 ACEM Details
 - 9.10.2 ACEM Major Business
 - 9.10.3 ACEM Solid-state Battery Electrolyte Powder Product and Services
 - 9.10.4 ACEM Solid-state Battery Electrolyte Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 ACEM Recent Developments/Updates
 - 9.10.6 ACEM Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Solid-state Battery Electrolyte Powder Industry Chain
- 10.2 Solid-state Battery Electrolyte Powder Upstream Analysis
 - 10.2.1 Solid-state Battery Electrolyte Powder Core Raw Materials
 - 10.2.2 Main Manufacturers of Solid-state Battery Electrolyte Powder Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Solid-state Battery Electrolyte Powder Production Mode
- 10.6 Solid-state Battery Electrolyte Powder Procurement Model
- 10.7 Solid-state Battery Electrolyte Powder Industry Sales Model and Sales Channels
 - 10.7.1 Solid-state Battery Electrolyte Powder Sales Model
 - 10.7.2 Solid-state Battery Electrolyte Powder 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 Solid-state Battery Electrolyte Powder Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Solid-state Battery Electrolyte Powder Production Value by Region (2021-2026) & (USD Million)

Table 3. World Solid-state Battery Electrolyte Powder Production Value by Region (2027-2032) & (USD Million)

Table 4. World Solid-state Battery Electrolyte Powder Production Value Market Share by Region (2021-2026)

Table 5. World Solid-state Battery Electrolyte Powder Production Value Market Share by Region (2027-2032)

Table 6. World Solid-state Battery Electrolyte Powder Production by Region (2021-2026) & (Kilotons)

Table 7. World Solid-state Battery Electrolyte Powder Production by Region (2027-2032) & (Kilotons)

Table 8. World Solid-state Battery Electrolyte Powder Production Market Share by Region (2021-2026)

Table 9. World Solid-state Battery Electrolyte Powder Production Market Share by Region (2027-2032)

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

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

Table 12. Solid-state Battery Electrolyte Powder Major Market Trends

Table 13. World Solid-state Battery Electrolyte Powder Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Solid-state Battery Electrolyte Powder Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Solid-state Battery Electrolyte Powder Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Solid-state Battery Electrolyte Powder Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Solid-state Battery Electrolyte Powder Producers in 2025

Table 18. World Solid-state Battery Electrolyte Powder Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Solid-state Battery Electrolyte Powder Producers in 2025

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

Table 21. Global Solid-state Battery Electrolyte Powder Company Evaluation Quadrant

Table 22. World Solid-state Battery Electrolyte Powder Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Solid-state Battery Electrolyte Powder Production Site of Key Manufacturer

Table 24. Solid-state Battery Electrolyte Powder Market: Company Product Type Footprint

Table 25. Solid-state Battery Electrolyte Powder Market: Company Product Application Footprint

Table 26. Solid-state Battery Electrolyte Powder Competitive Factors

Table 27. Solid-state Battery Electrolyte Powder New Entrant and Capacity Expansion Plans

Table 28. Solid-state Battery Electrolyte Powder Mergers & Acquisitions Activity

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

Table 30. United States VS China Solid-state Battery Electrolyte Powder Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Solid-state Battery Electrolyte Powder Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Solid-state Battery Electrolyte Powder Manufacturers, Headquarters and Production Site (States, Country)

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

Table 34. United States Based Manufacturers Solid-state Battery Electrolyte Powder Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Solid-state Battery Electrolyte Powder Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Solid-state Battery Electrolyte Powder Production Market Share (2021-2026)

Table 37. China Based Solid-state Battery Electrolyte Powder Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Solid-state Battery Electrolyte Powder Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Solid-state Battery Electrolyte Powder Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Solid-state Battery Electrolyte Powder Production, (2021-2026) & (Kilotons)
Table 41. China Based Manufacturers Solid-state Battery Electrolyte Powder Production Market Share (2021-2026)
Table 42. Rest of World Based Solid-state Battery Electrolyte Powder Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Solid-state Battery Electrolyte Powder Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Solid-state Battery Electrolyte Powder Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Solid-state Battery Electrolyte Powder Production, (2021-2026) & (Kilotons)
Table 46. Rest of World Based Manufacturers Solid-state Battery Electrolyte Powder Production Market Share (2021-2026)
Table 47. World Solid-state Battery Electrolyte Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Solid-state Battery Electrolyte Powder Production by Type (2021-2026) & (Kilotons)
Table 49. World Solid-state Battery Electrolyte Powder Production by Type (2027-2032) & (Kilotons)
Table 50. World Solid-state Battery Electrolyte Powder Production Value by Type (2021-2026) & (USD Million)
Table 51. World Solid-state Battery Electrolyte Powder Production Value by Type (2027-2032) & (USD Million)
Table 52. World Solid-state Battery Electrolyte Powder Average Price by Type (2021-2026) & (US\$/Ton)
Table 53. World Solid-state Battery Electrolyte Powder Average Price by Type (2027-2032) & (US\$/Ton)
Table 54. World Solid-state Battery Electrolyte Powder Production Value by Particle Size, (USD Million), 2021 & 2025 & 2032
Table 55. World Solid-state Battery Electrolyte Powder Production by Particle Size (2021-2026) & (Kilotons)
Table 56. World Solid-state Battery Electrolyte Powder Production by Particle Size (2027-2032) & (Kilotons)
Table 57. World Solid-state Battery Electrolyte Powder Production Value by Particle Size (2021-2026) & (USD Million)
Table 58. World Solid-state Battery Electrolyte Powder Production Value by Particle Size (2027-2032) & (USD Million)
Table 59. World Solid-state Battery Electrolyte Powder Average Price by Particle Size

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

Table 60. World Solid-state Battery Electrolyte Powder Average Price by Particle Size (2027-2032) & (US\$/Ton)

Table 61. World Solid-state Battery Electrolyte Powder Production Value by Ionic Conductivity Level, (USD Million), 2021 & 2025 & 2032

Table 62. World Solid-state Battery Electrolyte Powder Production by Ionic Conductivity Level (2021-2026) & (Kilotons)

Table 63. World Solid-state Battery Electrolyte Powder Production by Ionic Conductivity Level (2027-2032) & (Kilotons)

Table 64. World Solid-state Battery Electrolyte Powder Production Value by Ionic Conductivity Level (2021-2026) & (USD Million)

Table 65. World Solid-state Battery Electrolyte Powder Production Value by Ionic Conductivity Level (2027-2032) & (USD Million)

Table 66. World Solid-state Battery Electrolyte Powder Average Price by Ionic Conductivity Level (2021-2026) & (US\$/Ton)

Table 67. World Solid-state Battery Electrolyte Powder Average Price by Ionic Conductivity Level (2027-2032) & (US\$/Ton)

Table 68. World Solid-state Battery Electrolyte Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Solid-state Battery Electrolyte Powder Production by Application (2021-2026) & (Kilotons)

Table 70. World Solid-state Battery Electrolyte Powder Production by Application (2027-2032) & (Kilotons)

Table 71. World Solid-state Battery Electrolyte Powder Production Value by Application (2021-2026) & (USD Million)

Table 72. World Solid-state Battery Electrolyte Powder Production Value by Application (2027-2032) & (USD Million)

Table 73. World Solid-state Battery Electrolyte Powder Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Solid-state Battery Electrolyte Powder Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Ampcera Basic Information, Manufacturing Base and Competitors

Table 76. Ampcera Major Business

Table 77. Ampcera Solid-state Battery Electrolyte Powder Product and Services

Table 78. Ampcera Solid-state Battery Electrolyte Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Ampcera Recent Developments/Updates

Table 80. Ampcera Competitive Strengths & Weaknesses

Table 81. NEI Corporation Basic Information, Manufacturing Base and Competitors

Table 82. NEI Corporation Major Business

Table 83. NEI Corporation Solid-state Battery Electrolyte Powder Product and Services

Table 84. NEI Corporation Solid-state Battery Electrolyte Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. NEI Corporation Recent Developments/Updates

Table 86. NEI Corporation Competitive Strengths & Weaknesses

Table 87. Solid Power Basic Information, Manufacturing Base and Competitors

Table 88. Solid Power Major Business

Table 89. Solid Power Solid-state Battery Electrolyte Powder Product and Services

Table 90. Solid Power Solid-state Battery Electrolyte Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Solid Power Recent Developments/Updates

Table 92. Solid Power Competitive Strengths & Weaknesses

Table 93. Idemitsu Kosan Basic Information, Manufacturing Base and Competitors

Table 94. Idemitsu Kosan Major Business

Table 95. Idemitsu Kosan Solid-state Battery Electrolyte Powder Product and Services

Table 96. Idemitsu Kosan Solid-state Battery Electrolyte Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Idemitsu Kosan Recent Developments/Updates

Table 98. Idemitsu Kosan Competitive Strengths & Weaknesses

Table 99. Mitsui Kinzoku Basic Information, Manufacturing Base and Competitors

Table 100. Mitsui Kinzoku Major Business

Table 101. Mitsui Kinzoku Solid-state Battery Electrolyte Powder Product and Services

Table 102. Mitsui Kinzoku Solid-state Battery Electrolyte Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Mitsui Kinzoku Recent Developments/Updates

Table 104. Mitsui Kinzoku Competitive Strengths & Weaknesses

Table 105. Toshima Manufacturing Basic Information, Manufacturing Base and Competitors

Table 106. Toshima Manufacturing Major Business

Table 107. Toshima Manufacturing Solid-state Battery Electrolyte Powder Product and Services

Table 108. Toshima Manufacturing Solid-state Battery Electrolyte Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 109. Toshima Manufacturing Recent Developments/Updates

Table 110. Toshima Manufacturing Competitive Strengths & Weaknesses

Table 111. Dongwha Electrolyte Basic Information, Manufacturing Base and Competitors

Table 112. Dongwha Electrolyte Major Business

Table 113. Dongwha Electrolyte Solid-state Battery Electrolyte Powder Product and Services

Table 114. Dongwha Electrolyte Solid-state Battery Electrolyte Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Dongwha Electrolyte Recent Developments/Updates

Table 116. Dongwha Electrolyte Competitive Strengths & Weaknesses

Table 117. Xnergy Materials Basic Information, Manufacturing Base and Competitors

Table 118. Xnergy Materials Major Business

Table 119. Xnergy Materials Solid-state Battery Electrolyte Powder Product and Services

Table 120. Xnergy Materials Solid-state Battery Electrolyte Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Xnergy Materials Recent Developments/Updates

Table 122. Xnergy Materials Competitive Strengths & Weaknesses

Table 123. Qingtao Energy Development Basic Information, Manufacturing Base and Competitors

Table 124. Qingtao Energy Development Major Business

Table 125. Qingtao Energy Development Solid-state Battery Electrolyte Powder Product and Services

Table 126. Qingtao Energy Development Solid-state Battery Electrolyte Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Qingtao Energy Development Recent Developments/Updates

Table 128. Qingtao Energy Development Competitive Strengths & Weaknesses

Table 129. ACEM Basic Information, Manufacturing Base and Competitors

Table 130. ACEM Major Business

Table 131. ACEM Solid-state Battery Electrolyte Powder Product and Services

Table 132. ACEM Solid-state Battery Electrolyte Powder Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. ACEM Recent Developments/Updates

Table 134. ACEM Competitive Strengths & Weaknesses

Table 135. Global Key Players of Solid-state Battery Electrolyte Powder Upstream (Raw Materials)

Table 136. Global Solid-state Battery Electrolyte Powder Typical Customers

Table 137. Solid-state Battery Electrolyte Powder Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Solid-state Battery Electrolyte Powder Picture
- Figure 2. World Solid-state Battery Electrolyte Powder Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Solid-state Battery Electrolyte Powder Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Solid-state Battery Electrolyte Powder Production (2021-2032) & (Kilotons)
- Figure 5. World Solid-state Battery Electrolyte Powder Average Price (2021-2032) & (US\$/Ton)
- Figure 6. World Solid-state Battery Electrolyte Powder Production Value Market Share by Region (2021-2032)
- Figure 7. World Solid-state Battery Electrolyte Powder Production Market Share by Region (2021-2032)
- Figure 8. North America Solid-state Battery Electrolyte Powder Production (2021-2032) & (Kilotons)
- Figure 9. Europe Solid-state Battery Electrolyte Powder Production (2021-2032) & (Kilotons)
- Figure 10. China Solid-state Battery Electrolyte Powder Production (2021-2032) & (Kilotons)
- Figure 11. Japan Solid-state Battery Electrolyte Powder Production (2021-2032) & (Kilotons)
- Figure 12. India Solid-state Battery Electrolyte Powder Production (2021-2032) & (Kilotons)
- Figure 13. Southeast Asia Solid-state Battery Electrolyte Powder Production (2021-2032) & (Kilotons)
- Figure 14. Solid-state Battery Electrolyte Powder Market Drivers
- Figure 15. Factors Affecting Demand
- Figure 16. World Solid-state Battery Electrolyte Powder Consumption (2021-2032) & (Kilotons)
- Figure 17. World Solid-state Battery Electrolyte Powder Consumption Market Share by Region (2021-2032)
- Figure 18. United States Solid-state Battery Electrolyte Powder Consumption (2021-2032) & (Kilotons)
- Figure 19. China Solid-state Battery Electrolyte Powder Consumption (2021-2032) & (Kilotons)

Figure 20. Europe Solid-state Battery Electrolyte Powder Consumption (2021-2032) & (Kilotons)

Figure 21. Japan Solid-state Battery Electrolyte Powder Consumption (2021-2032) & (Kilotons)

Figure 22. South Korea Solid-state Battery Electrolyte Powder Consumption (2021-2032) & (Kilotons)

Figure 23. ASEAN Solid-state Battery Electrolyte Powder Consumption (2021-2032) & (Kilotons)

Figure 24. India Solid-state Battery Electrolyte Powder Consumption (2021-2032) & (Kilotons)

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

Figure 26. Global Four-firm Concentration Ratios (CR4) for Solid-state Battery Electrolyte Powder Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Solid-state Battery Electrolyte Powder Markets in 2025

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

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

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

Figure 31. United States Based Manufacturers Solid-state Battery Electrolyte Powder Production Market Share 2025

Figure 32. China Based Manufacturers Solid-state Battery Electrolyte Powder Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Solid-state Battery Electrolyte Powder Production Market Share 2025

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

Figure 35. World Solid-state Battery Electrolyte Powder Production Value Market Share by Type in 2025

Figure 36. Sulfide Solid Electrolyte Powder

Figure 37. Oxide Solid Electrolyte Powder

Figure 38. Halide Solid Electrolyte Powder

Figure 39. Phosphate-Based Solid Electrolyte Powder

Figure 40. Composite Solid Electrolyte Powder

Figure 41. World Solid-state Battery Electrolyte Powder Production Market Share by Type (2021-2032)

Figure 42. World Solid-state Battery Electrolyte Powder Production Value Market Share by Type (2021-2032)

Figure 43. World Solid-state Battery Electrolyte Powder Average Price by Type (2021-2032) & (US\$/Ton)

Figure 44. World Solid-state Battery Electrolyte Powder Production Value by Particle Size, (USD Million), 2021 & 2025 & 2032

Figure 45. World Solid-state Battery Electrolyte Powder Production Value Market Share by Particle Size in 2025

Figure 46. Micron-Grade Electrolyte Powder

Figure 47. Submicron Electrolyte Powder

Figure 48. Nano-Grade Electrolyte Powder

Figure 49. Custom Particle Size Electrolyte Powder

Figure 50. World Solid-state Battery Electrolyte Powder Production Market Share by Particle Size (2021-2032)

Figure 51. World Solid-state Battery Electrolyte Powder Production Value Market Share by Particle Size (2021-2032)

Figure 52. World Solid-state Battery Electrolyte Powder Average Price by Particle Size (2021-2032) & (US\$/Ton)

Figure 53. World Solid-state Battery Electrolyte Powder Production Value by Ionic Conductivity Level, (USD Million), 2021 & 2025 & 2032

Figure 54. World Solid-state Battery Electrolyte Powder Production Value Market Share by Ionic Conductivity Level in 2025

Figure 55. Standard Conductivity Electrolyte Powder

Figure 56. High Conductivity Electrolyte Powder

Figure 57. Ultra-High Conductivity Electrolyte Powder

Figure 58. World Solid-state Battery Electrolyte Powder Production Market Share by Ionic Conductivity Level (2021-2032)

Figure 59. World Solid-state Battery Electrolyte Powder Production Value Market Share by Ionic Conductivity Level (2021-2032)

Figure 60. World Solid-state Battery Electrolyte Powder Average Price by Ionic Conductivity Level (2021-2032) & (US\$/Ton)

Figure 61. World Solid-state Battery Electrolyte Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 62. World Solid-state Battery Electrolyte Powder Production Value Market Share by Application in 2025

Figure 63. Electric Vehicles

Figure 64. Consumer Electronics

Figure 65. Energy Storage Systems

Figure 66. Industrial Batteries

Figure 67. Aerospace & Defense Batteries

Figure 68. Others

Figure 69. World Solid-state Battery Electrolyte Powder Production Market Share by Application (2021-2032)

Figure 70. World Solid-state Battery Electrolyte Powder Production Value Market Share by Application (2021-2032)

Figure 71. World Solid-state Battery Electrolyte Powder Average Price by Application (2021-2032) & (US\$/Ton)

Figure 72. Solid-state Battery Electrolyte Powder Industry Chain

Figure 73. Solid-state Battery Electrolyte Powder Procurement Model

Figure 74. Solid-state Battery Electrolyte Powder Sales Model

Figure 75. Solid-state Battery Electrolyte Powder Sales Channels, Direct Sales, and Distribution

Figure 76. Methodology

Figure 77. Research Process and Data Source

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