

Global Precursor Free Cathode Materials for Solid-State Batteries Market Growth 2026-2032

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Abstracts

The global Precursor Free Cathode Materials for Solid-State Batteries market size is predicted to grow from US\$ 1816 million in 2025 to US\$ 7144 million in 2032; it is expected to grow at a CAGR of 21.7% from 2026 to 2032.

Precursor Free Cathode Materials for Solid-State Batteries refer to electrochemically active cathode materials manufactured through a direct calcination process that eliminates the conventional hydroxide or carbonate precursor intermediate step. In 2025, global production reached approximately 103,136 ton, with an average global market price of around USD 18,000 per ton. A factory gross profit of USD 3,960 per ton with 22% gross margin. A single line full machine capacity production is around 1,500 ton per line per year. The upstream is dependent on lithium refining, nickel availability and equipment. The downstream demand is concentrated in electric vehicle, consumer electronics and energy storage. South Korea leads driven by strong battery cell manufacturing and technology expansion. While China has large EV market growth.

United States market for Precursor Free Cathode Materials for Solid-State Batteries is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Precursor Free Cathode Materials for Solid-State Batteries is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Precursor Free Cathode Materials for Solid-State Batteries is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Precursor Free Cathode Materials for Solid-State Batteries players cover LG Chem, Easpring, Ronbay Technology, XTC New Energy, Ecopro BM, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Precursor Free Cathode Materials for Solid-State Batteries Industry Forecast" looks at past sales and reviews total world Precursor Free Cathode Materials for Solid-State Batteries sales in 2025, providing a comprehensive analysis by region and market sector of projected Precursor Free Cathode Materials for Solid-State Batteries sales for 2026 through 2032. With Precursor Free Cathode Materials for Solid-State Batteries sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Precursor Free Cathode Materials for Solid-State Batteries industry.

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Precursor Free Cathode Materials for Solid-State Batteries market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

High Ni NMC (Ni 80-89%)

Ultra High Ni NMC (Ni >90%)

Li Rich Mn Based (LMR)

Others

Segmentation by Manufacturing Process:

Direct Calcination (D2C)

Dry Electrode

Calendering

Pulsed Laser Deposition

Others

Segmentation by Electrolyte Compatibility:

Sulfide Compatible

Oxide Compatible

Polymer Compatible

Halide Compatible

Others

Segmentation by Application:

Electric Vehicles

Consumer Electronics

Energy Storage Systems

Medical Devices

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

LG Chem

Easpring

Ronbay Technology

XTC New Energy

Ecopro BM

POSCO Future M

Sumitomo Metal Mining

Ganfeng Lithium

CATL

BTR New Material

Shin-Etsu Chemical

Albemarle

Tianqi Lithium

BYD

Ampcera

GEM Co., Ltd.

Umicore

Zhejiang Huayou Cobalt

BASF

ProLogium

Qingtao Energy

Welion New Energy

Idemitsu Kosan

Shenzhen Capchem

Johnson Matthey

EVE Energy

CALB

BAK Battery

Zhuhai CosMX

Himadri Speciality Chemical

Key Questions Addressed in this Report

What is the 10-year outlook for the global Precursor Free Cathode Materials for Solid-State Batteries market?

What factors are driving Precursor Free Cathode Materials for Solid-State Batteries market growth, globally and by region?

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

How do Precursor Free Cathode Materials for Solid-State Batteries market opportunities vary by end market size?

How does Precursor Free Cathode Materials for Solid-State Batteries break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

2.1.1 Global Precursor Free Cathode Materials for Solid-State Batteries Annual Sales 2021-2032

2.1.2 World Current & Future Analysis for Precursor Free Cathode Materials for Solid-State Batteries by Geographic Region, 2021, 2025 & 2032

2.1.3 World Current & Future Analysis for Precursor Free Cathode Materials for Solid-State Batteries by Country/Region, 2021, 2025 & 2032

2.2 Precursor Free Cathode Materials for Solid-State Batteries Segment by Type

2.2.1 High Ni NMC (Ni 80-89%)

2.2.2 Ultra High Ni NMC (Ni ≥90%)

2.2.3 Li Rich Mn Based (LMR)

2.2.4 Others

2.2.5 Precursor Free Cathode Materials for Solid-State Batteries Sales by Type

2.2.5.1 Global Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Type (2021-2026)

2.2.5.2 Global Precursor Free Cathode Materials for Solid-State Batteries Revenue and Market Share by Type (2021-2026)

2.2.5.3 Global Precursor Free Cathode Materials for Solid-State Batteries Sale Price by Type (2021-2026)

2.3 Precursor Free Cathode Materials for Solid-State Batteries Segment by Manufacturing Process

2.3.1 Direct Calcination (D2C)

2.3.2 Dry Electrode

2.3.3 Calendering

2.3.4 Pulsed Laser Deposition

2.3.5 Others

2.3.6 Precursor Free Cathode Materials for Solid-State Batteries Sales by Manufacturing Process

2.3.6.1 Global Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Manufacturing Process (2021-2026)

2.3.6.2 Global Precursor Free Cathode Materials for Solid-State Batteries Revenue and Market Share by Manufacturing Process (2021-2026)

2.3.6.3 Global Precursor Free Cathode Materials for Solid-State Batteries Sale Price by Manufacturing Process (2021-2026)

2.4 Precursor Free Cathode Materials for Solid-State Batteries Segment by Electrolyte Compatibility

2.4.1 Sulfide Compatible

2.4.2 Oxide Compatible

2.4.3 Polymer Compatible

2.4.4 Halide Compatible

2.4.5 Others

2.4.6 Precursor Free Cathode Materials for Solid-State Batteries Sales by Electrolyte Compatibility

2.4.6.1 Global Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Electrolyte Compatibility (2021-2026)

2.4.6.2 Global Precursor Free Cathode Materials for Solid-State Batteries Revenue and Market Share by Electrolyte Compatibility (2021-2026)

2.4.6.3 Global Precursor Free Cathode Materials for Solid-State Batteries Sale Price by Electrolyte Compatibility (2021-2026)

2.5 Precursor Free Cathode Materials for Solid-State Batteries Segment by Application

2.5.1 Electric Vehicles

2.5.2 Consumer Electronics

2.5.3 Energy Storage Systems

2.5.4 Medical Devices

2.5.5 Others

2.5.6 Precursor Free Cathode Materials for Solid-State Batteries Sales by Application

2.5.6.1 Global Precursor Free Cathode Materials for Solid-State Batteries Sale Market Share by Application (2021-2026)

2.5.6.2 Global Precursor Free Cathode Materials for Solid-State Batteries Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Precursor Free Cathode Materials for Solid-State Batteries Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Precursor Free Cathode Materials for Solid-State Batteries Breakdown Data by Company

3.1.1 Global Precursor Free Cathode Materials for Solid-State Batteries Annual Sales by Company (2021-2026)

3.1.2 Global Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Company (2021-2026)

3.2 Global Precursor Free Cathode Materials for Solid-State Batteries Annual Revenue by Company (2021-2026)

3.2.1 Global Precursor Free Cathode Materials for Solid-State Batteries Revenue by Company (2021-2026)

3.2.2 Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Company (2021-2026)

3.3 Global Precursor Free Cathode Materials for Solid-State Batteries Sale Price by Company

3.4 Key Manufacturers Precursor Free Cathode Materials for Solid-State Batteries Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Precursor Free Cathode Materials for Solid-State Batteries Product Location Distribution

3.4.2 Players Precursor Free Cathode Materials for Solid-State Batteries Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PRECURSOR FREE CATHODE MATERIALS FOR SOLID-STATE BATTERIES BY GEOGRAPHIC REGION

4.1 World Historic Precursor Free Cathode Materials for Solid-State Batteries Market Size by Geographic Region (2021-2026)

4.1.1 Global Precursor Free Cathode Materials for Solid-State Batteries Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Precursor Free Cathode Materials for Solid-State Batteries Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Precursor Free Cathode Materials for Solid-State Batteries Market Size by Country/Region (2021-2026)

4.2.1 Global Precursor Free Cathode Materials for Solid-State Batteries Annual Sales by Country/Region (2021-2026)

4.2.2 Global Precursor Free Cathode Materials for Solid-State Batteries Annual Revenue by Country/Region (2021-2026)

4.3 Americas Precursor Free Cathode Materials for Solid-State Batteries Sales Growth

4.4 APAC Precursor Free Cathode Materials for Solid-State Batteries Sales Growth

4.5 Europe Precursor Free Cathode Materials for Solid-State Batteries Sales Growth

4.6 Middle East & Africa Precursor Free Cathode Materials for Solid-State Batteries Sales Growth

5 AMERICAS

5.1 Americas Precursor Free Cathode Materials for Solid-State Batteries Sales by Country

5.1.1 Americas Precursor Free Cathode Materials for Solid-State Batteries Sales by Country (2021-2026)

5.1.2 Americas Precursor Free Cathode Materials for Solid-State Batteries Revenue by Country (2021-2026)

5.2 Americas Precursor Free Cathode Materials for Solid-State Batteries Sales by Type (2021-2026)

5.3 Americas Precursor Free Cathode Materials for Solid-State Batteries Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Precursor Free Cathode Materials for Solid-State Batteries Sales by Region

6.1.1 APAC Precursor Free Cathode Materials for Solid-State Batteries Sales by Region (2021-2026)

6.1.2 APAC Precursor Free Cathode Materials for Solid-State Batteries Revenue by Region (2021-2026)

6.2 APAC Precursor Free Cathode Materials for Solid-State Batteries Sales by Type (2021-2026)

6.3 APAC Precursor Free Cathode Materials for Solid-State Batteries Sales by Application (2021-2026)

6.4 China

- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

7.1 Europe Precursor Free Cathode Materials for Solid-State Batteries by Country

7.1.1 Europe Precursor Free Cathode Materials for Solid-State Batteries Sales by Country (2021-2026)

7.1.2 Europe Precursor Free Cathode Materials for Solid-State Batteries Revenue by Country (2021-2026)

7.2 Europe Precursor Free Cathode Materials for Solid-State Batteries Sales by Type (2021-2026)

7.3 Europe Precursor Free Cathode Materials for Solid-State Batteries Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Precursor Free Cathode Materials for Solid-State Batteries by Country

8.1.1 Middle East & Africa Precursor Free Cathode Materials for Solid-State Batteries Sales by Country (2021-2026)

8.1.2 Middle East & Africa Precursor Free Cathode Materials for Solid-State Batteries Revenue by Country (2021-2026)

8.2 Middle East & Africa Precursor Free Cathode Materials for Solid-State Batteries Sales by Type (2021-2026)

8.3 Middle East & Africa Precursor Free Cathode Materials for Solid-State Batteries Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Precursor Free Cathode Materials for Solid-State Batteries

10.3 Manufacturing Process Analysis of Precursor Free Cathode Materials for Solid-State Batteries

10.4 Industry Chain Structure of Precursor Free Cathode Materials for Solid-State Batteries

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Precursor Free Cathode Materials for Solid-State Batteries Distributors

11.3 Precursor Free Cathode Materials for Solid-State Batteries Customer

12 WORLD FORECAST REVIEW FOR PRECURSOR FREE CATHODE MATERIALS FOR SOLID-STATE BATTERIES BY GEOGRAPHIC REGION

12.1 Global Precursor Free Cathode Materials for Solid-State Batteries Market Size Forecast by Region

12.1.1 Global Precursor Free Cathode Materials for Solid-State Batteries Forecast by Region (2027-2032)

12.1.2 Global Precursor Free Cathode Materials for Solid-State Batteries Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Precursor Free Cathode Materials for Solid-State Batteries Forecast by Type (2027-2032)

12.7 Global Precursor Free Cathode Materials for Solid-State Batteries Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 LG Chem

13.1.1 LG Chem Company Information

13.1.2 LG Chem Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.1.3 LG Chem Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 LG Chem Main Business Overview

13.1.5 LG Chem Latest Developments

13.2 Easpring

13.2.1 Easpring Company Information

13.2.2 Easpring Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.2.3 Easpring Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Easpring Main Business Overview

13.2.5 Easpring Latest Developments

13.3 Ronbay Technology

13.3.1 Ronbay Technology Company Information

13.3.2 Ronbay Technology Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.3.3 Ronbay Technology Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Ronbay Technology Main Business Overview

13.3.5 Ronbay Technology Latest Developments

13.4 XTC New Energy

13.4.1 XTC New Energy Company Information

13.4.2 XTC New Energy Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.4.3 XTC New Energy Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 XTC New Energy Main Business Overview

- 13.4.5 XTC New Energy Latest Developments
- 13.5 Ecopro BM
 - 13.5.1 Ecopro BM Company Information
 - 13.5.2 Ecopro BM Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications
 - 13.5.3 Ecopro BM Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Ecopro BM Main Business Overview
 - 13.5.5 Ecopro BM Latest Developments
- 13.6 POSCO Future M
 - 13.6.1 POSCO Future M Company Information
 - 13.6.2 POSCO Future M Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications
 - 13.6.3 POSCO Future M Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 POSCO Future M Main Business Overview
 - 13.6.5 POSCO Future M Latest Developments
- 13.7 Sumitomo Metal Mining
 - 13.7.1 Sumitomo Metal Mining Company Information
 - 13.7.2 Sumitomo Metal Mining Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications
 - 13.7.3 Sumitomo Metal Mining Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Sumitomo Metal Mining Main Business Overview
 - 13.7.5 Sumitomo Metal Mining Latest Developments
- 13.8 Ganfeng Lithium
 - 13.8.1 Ganfeng Lithium Company Information
 - 13.8.2 Ganfeng Lithium Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications
 - 13.8.3 Ganfeng Lithium Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Ganfeng Lithium Main Business Overview
 - 13.8.5 Ganfeng Lithium Latest Developments
- 13.9 CATL
 - 13.9.1 CATL Company Information
 - 13.9.2 CATL Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications
 - 13.9.3 CATL Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.9.4 CATL Main Business Overview
- 13.9.5 CATL Latest Developments
- 13.10 BTR New Material
 - 13.10.1 BTR New Material Company Information
 - 13.10.2 BTR New Material Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications
 - 13.10.3 BTR New Material Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 BTR New Material Main Business Overview
 - 13.10.5 BTR New Material Latest Developments
- 13.11 Shin-Etsu Chemical
 - 13.11.1 Shin-Etsu Chemical Company Information
 - 13.11.2 Shin-Etsu Chemical Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications
 - 13.11.3 Shin-Etsu Chemical Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Shin-Etsu Chemical Main Business Overview
 - 13.11.5 Shin-Etsu Chemical Latest Developments
- 13.12 Albemarle
 - 13.12.1 Albemarle Company Information
 - 13.12.2 Albemarle Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications
 - 13.12.3 Albemarle Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Albemarle Main Business Overview
 - 13.12.5 Albemarle Latest Developments
- 13.13 Tianqi Lithium
 - 13.13.1 Tianqi Lithium Company Information
 - 13.13.2 Tianqi Lithium Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications
 - 13.13.3 Tianqi Lithium Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Tianqi Lithium Main Business Overview
 - 13.13.5 Tianqi Lithium Latest Developments
- 13.14 BYD
 - 13.14.1 BYD Company Information
 - 13.14.2 BYD Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications
 - 13.14.3 BYD Precursor Free Cathode Materials for Solid-State Batteries Sales,

Revenue, Price and Gross Margin (2021-2026)

13.14.4 BYD Main Business Overview

13.14.5 BYD Latest Developments

13.15 Ampcera

13.15.1 Ampcera Company Information

13.15.2 Ampcera Precursor Free Cathode Materials for Solid-State Batteries Product

Portfolios and Specifications

13.15.3 Ampcera Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Ampcera Main Business Overview

13.15.5 Ampcera Latest Developments

13.16 GEM Co., Ltd.

13.16.1 GEM Co., Ltd. Company Information

13.16.2 GEM Co., Ltd. Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.16.3 GEM Co., Ltd. Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 GEM Co., Ltd. Main Business Overview

13.16.5 GEM Co., Ltd. Latest Developments

13.17 Umicore

13.17.1 Umicore Company Information

13.17.2 Umicore Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.17.3 Umicore Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 Umicore Main Business Overview

13.17.5 Umicore Latest Developments

13.18 Zhejiang Huayou Cobalt

13.18.1 Zhejiang Huayou Cobalt Company Information

13.18.2 Zhejiang Huayou Cobalt Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.18.3 Zhejiang Huayou Cobalt Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Zhejiang Huayou Cobalt Main Business Overview

13.18.5 Zhejiang Huayou Cobalt Latest Developments

13.19 BASF

13.19.1 BASF Company Information

13.19.2 BASF Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.19.3 BASF Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 BASF Main Business Overview

13.19.5 BASF Latest Developments

13.20 ProLogium

13.20.1 ProLogium Company Information

13.20.2 ProLogium Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.20.3 ProLogium Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 ProLogium Main Business Overview

13.20.5 ProLogium Latest Developments

13.21 Qingtao Energy

13.21.1 Qingtao Energy Company Information

13.21.2 Qingtao Energy Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.21.3 Qingtao Energy Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.21.4 Qingtao Energy Main Business Overview

13.21.5 Qingtao Energy Latest Developments

13.22 Welion New Energy

13.22.1 Welion New Energy Company Information

13.22.2 Welion New Energy Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.22.3 Welion New Energy Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.22.4 Welion New Energy Main Business Overview

13.22.5 Welion New Energy Latest Developments

13.23 Idemitsu Kosan

13.23.1 Idemitsu Kosan Company Information

13.23.2 Idemitsu Kosan Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.23.3 Idemitsu Kosan Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.23.4 Idemitsu Kosan Main Business Overview

13.23.5 Idemitsu Kosan Latest Developments

13.24 Shenzhen Capchem

13.24.1 Shenzhen Capchem Company Information

13.24.2 Shenzhen Capchem Precursor Free Cathode Materials for Solid-State

Batteries Product Portfolios and Specifications

13.24.3 Shenzhen Capchem Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.24.4 Shenzhen Capchem Main Business Overview

13.24.5 Shenzhen Capchem Latest Developments

13.25 Johnson Matthey

13.25.1 Johnson Matthey Company Information

13.25.2 Johnson Matthey Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.25.3 Johnson Matthey Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.25.4 Johnson Matthey Main Business Overview

13.25.5 Johnson Matthey Latest Developments

13.26 EVE Energy

13.26.1 EVE Energy Company Information

13.26.2 EVE Energy Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.26.3 EVE Energy Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.26.4 EVE Energy Main Business Overview

13.26.5 EVE Energy Latest Developments

13.27 CALB

13.27.1 CALB Company Information

13.27.2 CALB Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.27.3 CALB Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.27.4 CALB Main Business Overview

13.27.5 CALB Latest Developments

13.28 BAK Battery

13.28.1 BAK Battery Company Information

13.28.2 BAK Battery Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

13.28.3 BAK Battery Precursor Free Cathode Materials for Solid-State Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.28.4 BAK Battery Main Business Overview

13.28.5 BAK Battery Latest Developments

13.29 Zhuhai CosMX

13.29.1 Zhuhai CosMX Company Information

13.29.2 Zhuhai CosMX Precursor Free Cathode Materials for Solid-State Batteries
Product Portfolios and Specifications

13.29.3 Zhuhai CosMX Precursor Free Cathode Materials for Solid-State Batteries
Sales, Revenue, Price and Gross Margin (2021-2026)

13.29.4 Zhuhai CosMX Main Business Overview

13.29.5 Zhuhai CosMX Latest Developments

13.30 Himadri Speciality Chemical

13.30.1 Himadri Speciality Chemical Company Information

13.30.2 Himadri Speciality Chemical Precursor Free Cathode Materials for Solid-State
Batteries Product Portfolios and Specifications

13.30.3 Himadri Speciality Chemical Precursor Free Cathode Materials for Solid-State
Batteries Sales, Revenue, Price and Gross Margin (2021-2026)

13.30.4 Himadri Speciality Chemical Main Business Overview

13.30.5 Himadri Speciality Chemical Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Precursor Free Cathode Materials for Solid-State Batteries Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Precursor Free Cathode Materials for Solid-State Batteries Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of High Ni NMC (Ni 80-89%)

Table 4. Major Players of Ultra High Ni NMC (Ni ≥90%)

Table 5. Major Players of Li Rich Mn Based (LMR)

Table 6. Major Players of Others

Table 7. Global Precursor Free Cathode Materials for Solid-State Batteries Sales by Type (2021-2026) & (Tons)

Table 8. Global Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Type (2021-2026)

Table 9. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Type (2021-2026)

Table 11. Global Precursor Free Cathode Materials for Solid-State Batteries Sale Price by Type (2021-2026) & (US\$/Ton)

Table 12. Major Players of Direct Calcination (D2C)

Table 13. Major Players of Dry Electrode

Table 14. Major Players of Calendering

Table 15. Major Players of Pulsed Laser Deposition

Table 16. Major Players of Others

Table 17. Global Precursor Free Cathode Materials for Solid-State Batteries Sales by Manufacturing Process (2021-2026) & (Tons)

Table 18. Global Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Manufacturing Process (2021-2026)

Table 19. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue by Manufacturing Process (2021-2026) & (\$ million)

Table 20. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Manufacturing Process (2021-2026)

Table 21. Global Precursor Free Cathode Materials for Solid-State Batteries Sale Price by Manufacturing Process (2021-2026) & (US\$/Ton)

Table 22. Major Players of Sulfide Compatible

Table 23. Major Players of Oxide Compatible

Table 24. Major Players of Polymer Compatible

Table 25. Major Players of Halide Compatible

Table 26. Major Players of Others

Table 27. Global Precursor Free Cathode Materials for Solid-State Batteries Sales by Electrolyte Compatibility (2021-2026) & (Tons)

Table 28. Global Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Electrolyte Compatibility (2021-2026)

Table 29. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue by Electrolyte Compatibility (2021-2026) & (\$ million)

Table 30. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Electrolyte Compatibility (2021-2026)

Table 31. Global Precursor Free Cathode Materials for Solid-State Batteries Sale Price by Electrolyte Compatibility (2021-2026) & (US\$/Ton)

Table 32. Global Precursor Free Cathode Materials for Solid-State Batteries Sale by Application (2021-2026) & (Tons)

Table 33. Global Precursor Free Cathode Materials for Solid-State Batteries Sale Market Share by Application (2021-2026)

Table 34. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue by Application (2021-2026) & (\$ million)

Table 35. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Application (2021-2026)

Table 36. Global Precursor Free Cathode Materials for Solid-State Batteries Sale Price by Application (2021-2026) & (US\$/Ton)

Table 37. Global Precursor Free Cathode Materials for Solid-State Batteries Sales by Company (2021-2026) & (Tons)

Table 38. Global Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Company (2021-2026)

Table 39. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue by Company (2021-2026) & (\$ millions)

Table 40. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Company (2021-2026)

Table 41. Global Precursor Free Cathode Materials for Solid-State Batteries Sale Price by Company (2021-2026) & (US\$/Ton)

Table 42. Key Manufacturers Precursor Free Cathode Materials for Solid-State Batteries Producing Area Distribution and Sales Area

Table 43. Players Precursor Free Cathode Materials for Solid-State Batteries Products Offered

Table 44. Precursor Free Cathode Materials for Solid-State Batteries Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 45. New Products and Potential Entrants

Table 46. Market M&A Activity & Strategy

Table 47. Global Precursor Free Cathode Materials for Solid-State Batteries Sales by Geographic Region (2021-2026) & (Tons)

Table 48. Global Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share Geographic Region (2021-2026)

Table 49. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 50. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Geographic Region (2021-2026)

Table 51. Global Precursor Free Cathode Materials for Solid-State Batteries Sales by Country/Region (2021-2026) & (Tons)

Table 52. Global Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Country/Region (2021-2026)

Table 53. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue by Country/Region (2021-2026) & (\$ millions)

Table 54. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Country/Region (2021-2026)

Table 55. Americas Precursor Free Cathode Materials for Solid-State Batteries Sales by Country (2021-2026) & (Tons)

Table 56. Americas Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Country (2021-2026)

Table 57. Americas Precursor Free Cathode Materials for Solid-State Batteries Revenue by Country (2021-2026) & (\$ millions)

Table 58. Americas Precursor Free Cathode Materials for Solid-State Batteries Sales by Type (2021-2026) & (Tons)

Table 59. Americas Precursor Free Cathode Materials for Solid-State Batteries Sales by Application (2021-2026) & (Tons)

Table 60. APAC Precursor Free Cathode Materials for Solid-State Batteries Sales by Region (2021-2026) & (Tons)

Table 61. APAC Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Region (2021-2026)

Table 62. APAC Precursor Free Cathode Materials for Solid-State Batteries Revenue by Region (2021-2026) & (\$ millions)

Table 63. APAC Precursor Free Cathode Materials for Solid-State Batteries Sales by Type (2021-2026) & (Tons)

Table 64. APAC Precursor Free Cathode Materials for Solid-State Batteries Sales by Application (2021-2026) & (Tons)

Table 65. Europe Precursor Free Cathode Materials for Solid-State Batteries Sales by

Country (2021-2026) & (Tons)

Table 66. Europe Precursor Free Cathode Materials for Solid-State Batteries Revenue by Country (2021-2026) & (\$ millions)

Table 67. Europe Precursor Free Cathode Materials for Solid-State Batteries Sales by Type (2021-2026) & (Tons)

Table 68. Europe Precursor Free Cathode Materials for Solid-State Batteries Sales by Application (2021-2026) & (Tons)

Table 69. Middle East & Africa Precursor Free Cathode Materials for Solid-State Batteries Sales by Country (2021-2026) & (Tons)

Table 70. Middle East & Africa Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Country (2021-2026)

Table 71. Middle East & Africa Precursor Free Cathode Materials for Solid-State Batteries Sales by Type (2021-2026) & (Tons)

Table 72. Middle East & Africa Precursor Free Cathode Materials for Solid-State Batteries Sales by Application (2021-2026) & (Tons)

Table 73. Key Market Drivers & Growth Opportunities of Precursor Free Cathode Materials for Solid-State Batteries

Table 74. Key Market Challenges & Risks of Precursor Free Cathode Materials for Solid-State Batteries

Table 75. Key Industry Trends of Precursor Free Cathode Materials for Solid-State Batteries

Table 76. Precursor Free Cathode Materials for Solid-State Batteries Raw Material

Table 77. Key Suppliers of Raw Materials

Table 78. Precursor Free Cathode Materials for Solid-State Batteries Distributors List

Table 79. Precursor Free Cathode Materials for Solid-State Batteries Customer List

Table 80. Global Precursor Free Cathode Materials for Solid-State Batteries Sales Forecast by Region (2027-2032) & (Tons)

Table 81. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 82. Americas Precursor Free Cathode Materials for Solid-State Batteries Sales Forecast by Country (2027-2032) & (Tons)

Table 83. Americas Precursor Free Cathode Materials for Solid-State Batteries Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. APAC Precursor Free Cathode Materials for Solid-State Batteries Sales Forecast by Region (2027-2032) & (Tons)

Table 85. APAC Precursor Free Cathode Materials for Solid-State Batteries Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 86. Europe Precursor Free Cathode Materials for Solid-State Batteries Sales Forecast by Country (2027-2032) & (Tons)

Table 87. Europe Precursor Free Cathode Materials for Solid-State Batteries Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 88. Middle East & Africa Precursor Free Cathode Materials for Solid-State Batteries Sales Forecast by Country (2027-2032) & (Tons)

Table 89. Middle East & Africa Precursor Free Cathode Materials for Solid-State Batteries Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 90. Global Precursor Free Cathode Materials for Solid-State Batteries Sales Forecast by Type (2027-2032) & (Tons)

Table 91. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 92. Global Precursor Free Cathode Materials for Solid-State Batteries Sales Forecast by Application (2027-2032) & (Tons)

Table 93. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 94. LG Chem Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 95. LG Chem Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 96. LG Chem Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 97. LG Chem Main Business

Table 98. LG Chem Latest Developments

Table 99. Easpring Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 100. Easpring Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 101. Easpring Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 102. Easpring Main Business

Table 103. Easpring Latest Developments

Table 104. Ronbay Technology Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 105. Ronbay Technology Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 106. Ronbay Technology Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 107. Ronbay Technology Main Business

Table 108. Ronbay Technology Latest Developments

Table 109. XTC New Energy Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 110. XTC New Energy Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 111. XTC New Energy Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 112. XTC New Energy Main Business

Table 113. XTC New Energy Latest Developments

Table 114. Ecopro BM Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 115. Ecopro BM Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 116. Ecopro BM Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 117. Ecopro BM Main Business

Table 118. Ecopro BM Latest Developments

Table 119. POSCO Future M Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 120. POSCO Future M Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 121. POSCO Future M Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 122. POSCO Future M Main Business

Table 123. POSCO Future M Latest Developments

Table 124. Sumitomo Metal Mining Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 125. Sumitomo Metal Mining Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 126. Sumitomo Metal Mining Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 127. Sumitomo Metal Mining Main Business

Table 128. Sumitomo Metal Mining Latest Developments

Table 129. Ganfeng Lithium Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 130. Ganfeng Lithium Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 131. Ganfeng Lithium Precursor Free Cathode Materials for Solid-State Batteries

Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 132. Ganfeng Lithium Main Business

Table 133. Ganfeng Lithium Latest Developments

Table 134. CATL Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 135. CATL Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 136. CATL Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 137. CATL Main Business

Table 138. CATL Latest Developments

Table 139. BTR New Material Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 140. BTR New Material Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 141. BTR New Material Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 142. BTR New Material Main Business

Table 143. BTR New Material Latest Developments

Table 144. Shin-Etsu Chemical Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 145. Shin-Etsu Chemical Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 146. Shin-Etsu Chemical Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 147. Shin-Etsu Chemical Main Business

Table 148. Shin-Etsu Chemical Latest Developments

Table 149. Albemarle Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 150. Albemarle Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 151. Albemarle Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 152. Albemarle Main Business

Table 153. Albemarle Latest Developments

Table 154. Tianqi Lithium Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 155. Tianqi Lithium Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 156. Tianqi Lithium Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 157. Tianqi Lithium Main Business

Table 158. Tianqi Lithium Latest Developments

Table 159. BYD Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 160. BYD Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 161. BYD Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 162. BYD Main Business

Table 163. BYD Latest Developments

Table 164. Ampcera Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 165. Ampcera Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 166. Ampcera Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 167. Ampcera Main Business

Table 168. Ampcera Latest Developments

Table 169. GEM Co., Ltd. Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 170. GEM Co., Ltd. Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 171. GEM Co., Ltd. Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 172. GEM Co., Ltd. Main Business

Table 173. GEM Co., Ltd. Latest Developments

Table 174. Umicore Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 175. Umicore Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 176. Umicore Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 177. Umicore Main Business

Table 178. Umicore Latest Developments

Table 179. Zhejiang Huayou Cobalt Basic Information, Precursor Free Cathode

Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors
Table 180. Zhejiang Huayou Cobalt Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 181. Zhejiang Huayou Cobalt Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 182. Zhejiang Huayou Cobalt Main Business

Table 183. Zhejiang Huayou Cobalt Latest Developments

Table 184. BASF Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 185. BASF Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 186. BASF Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 187. BASF Main Business

Table 188. BASF Latest Developments

Table 189. ProLogium Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 190. ProLogium Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 191. ProLogium Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 192. ProLogium Main Business

Table 193. ProLogium Latest Developments

Table 194. Qingtao Energy Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 195. Qingtao Energy Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 196. Qingtao Energy Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 197. Qingtao Energy Main Business

Table 198. Qingtao Energy Latest Developments

Table 199. Welion New Energy Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 200. Welion New Energy Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 201. Welion New Energy Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 202. Welion New Energy Main Business

Table 203. Welion New Energy Latest Developments

Table 204. Idemitsu Kosan Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 205. Idemitsu Kosan Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 206. Idemitsu Kosan Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 207. Idemitsu Kosan Main Business

Table 208. Idemitsu Kosan Latest Developments

Table 209. Shenzhen Capchem Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 210. Shenzhen Capchem Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 211. Shenzhen Capchem Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 212. Shenzhen Capchem Main Business

Table 213. Shenzhen Capchem Latest Developments

Table 214. Johnson Matthey Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 215. Johnson Matthey Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 216. Johnson Matthey Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 217. Johnson Matthey Main Business

Table 218. Johnson Matthey Latest Developments

Table 219. EVE Energy Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 220. EVE Energy Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 221. EVE Energy Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 222. EVE Energy Main Business

Table 223. EVE Energy Latest Developments

Table 224. CALB Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 225. CALB Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 226. CALB Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 227. CALB Main Business

Table 228. CALB Latest Developments

Table 229. BAK Battery Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 230. BAK Battery Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 231. BAK Battery Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 232. BAK Battery Main Business

Table 233. BAK Battery Latest Developments

Table 234. Zhuhai CosMX Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 235. Zhuhai CosMX Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 236. Zhuhai CosMX Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 237. Zhuhai CosMX Main Business

Table 238. Zhuhai CosMX Latest Developments

Table 239. Himadri Speciality Chemical Basic Information, Precursor Free Cathode Materials for Solid-State Batteries Manufacturing Base, Sales Area and Its Competitors

Table 240. Himadri Speciality Chemical Precursor Free Cathode Materials for Solid-State Batteries Product Portfolios and Specifications

Table 241. Himadri Speciality Chemical Precursor Free Cathode Materials for Solid-State Batteries Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 242. Himadri Speciality Chemical Main Business

Table 243. Himadri Speciality Chemical Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Precursor Free Cathode Materials for Solid-State Batteries

Figure 2. Precursor Free Cathode Materials for Solid-State Batteries Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Precursor Free Cathode Materials for Solid-State Batteries Sales Growth Rate 2021-2032 (Tons)

Figure 7. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Precursor Free Cathode Materials for Solid-State Batteries Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Country/Region (2025)

Figure 10. Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of High Ni NMC (Ni 80-89%)

Figure 12. Product Picture of Ultra High Ni NMC (Ni ≥90%)

Figure 13. Product Picture of Li Rich Mn Based (LMR)

Figure 14. Product Picture of Others

Figure 15. Global Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Type in 2026

Figure 16. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Type (2021-2026)

Figure 17. Product Picture of Direct Calcination (D2C)

Figure 18. Product Picture of Dry Electrode

Figure 19. Product Picture of Calendering

Figure 20. Product Picture of Pulsed Laser Deposition

Figure 21. Product Picture of Others

Figure 22. Global Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Manufacturing Process in 2026

Figure 23. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Manufacturing Process (2021-2026)

Figure 24. Product Picture of Sulfide Compatible

Figure 25. Product Picture of Oxide Compatible

Figure 26. Product Picture of Polymer Compatible

Figure 27. Product Picture of Halide Compatible

Figure 28. Product Picture of Others

Figure 29. Global Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Electrolyte Compatibility in 2026

Figure 30. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Electrolyte Compatibility (2021-2026)

Figure 31. Precursor Free Cathode Materials for Solid-State Batteries Consumed in Electric Vehicles

Figure 32. Global Precursor Free Cathode Materials for Solid-State Batteries Market: Electric Vehicles (2021-2026) & (Tons)

Figure 33. Precursor Free Cathode Materials for Solid-State Batteries Consumed in Consumer Electronics

Figure 34. Global Precursor Free Cathode Materials for Solid-State Batteries Market: Consumer Electronics (2021-2026) & (Tons)

Figure 35. Precursor Free Cathode Materials for Solid-State Batteries Consumed in Energy Storage Systems

Figure 36. Global Precursor Free Cathode Materials for Solid-State Batteries Market: Energy Storage Systems (2021-2026) & (Tons)

Figure 37. Precursor Free Cathode Materials for Solid-State Batteries Consumed in Medical Devices

Figure 38. Global Precursor Free Cathode Materials for Solid-State Batteries Market: Medical Devices (2021-2026) & (Tons)

Figure 39. Precursor Free Cathode Materials for Solid-State Batteries Consumed in Others

Figure 40. Global Precursor Free Cathode Materials for Solid-State Batteries Market: Others (2021-2026) & (Tons)

Figure 41. Global Precursor Free Cathode Materials for Solid-State Batteries Sale Market Share by Application (2025)

Figure 42. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Application in 2025

Figure 43. Precursor Free Cathode Materials for Solid-State Batteries Sales by Company in 2025 (Tons)

Figure 44. Global Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Company in 2025

Figure 45. Precursor Free Cathode Materials for Solid-State Batteries Revenue by Company in 2025 (\$ millions)

Figure 46. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Company in 2025

Figure 47. Global Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Geographic Region (2021-2026)

Figure 48. Global Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Geographic Region in 2025

Figure 49. Americas Precursor Free Cathode Materials for Solid-State Batteries Sales 2021-2026 (Tons)

Figure 50. Americas Precursor Free Cathode Materials for Solid-State Batteries Revenue 2021-2026 (\$ millions)

Figure 51. APAC Precursor Free Cathode Materials for Solid-State Batteries Sales 2021-2026 (Tons)

Figure 52. APAC Precursor Free Cathode Materials for Solid-State Batteries Revenue 2021-2026 (\$ millions)

Figure 53. Europe Precursor Free Cathode Materials for Solid-State Batteries Sales 2021-2026 (Tons)

Figure 54. Europe Precursor Free Cathode Materials for Solid-State Batteries Revenue 2021-2026 (\$ millions)

Figure 55. Middle East & Africa Precursor Free Cathode Materials for Solid-State Batteries Sales 2021-2026 (Tons)

Figure 56. Middle East & Africa Precursor Free Cathode Materials for Solid-State Batteries Revenue 2021-2026 (\$ millions)

Figure 57. Americas Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Country in 2025

Figure 58. Americas Precursor Free Cathode Materials for Solid-State Batteries Revenue Market Share by Country (2021-2026)

Figure 59. Americas Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Type (2021-2026)

Figure 60. Americas Precursor Free Cathode Materials for Solid-State Batteries Sales Market Share by Application (2021-2026)

Figure 61. United States Precursor Free Cathode Materials for Solid-State Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 62. Canada Precursor Free Cathode Materials for Solid-State Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 63. Mexico Precursor Free Cathode Materials for Solid-State Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 64. Brazil Precursor Free Cathode Materials for Solid-State Batteries Revenue Growth 2021-2026 (\$ millions)

Figure 65. APAC Precursor

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