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Global Precursor Free Cathode Materials for Solid-State Batteries Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Precursor Free Cathode Materials for Solid-State Batteries market size was valued at US$ 1910 million in 2025 and is forecast to a readjusted size of US$ 7054 million by 2032 with a CAGR of 20.4% during review period.

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 updtream 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.

This report is a detailed and comprehensive analysis for global Precursor Free Cathode Materials for Solid-State Batteries market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

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Global Precursor Free Cathode Materials for Solid-State Batteries market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Precursor Free Cathode Materials for Solid-State Batteries market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Precursor Free Cathode Materials for Solid-State Batteries market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Precursor Free Cathode Materials for Solid-State Batteries market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Precursor Free Cathode Materials for Solid-State Batteries

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Precursor Free Cathode Materials for Solid-State Batteries market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include LG Chem, Easpring, Ronbay Technology, XTC New Energy, Ecopro BM, POSCO Future M, Sumitomo Metal Mining, Ganfeng Lithium, CATL, BTR New Material, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

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Market Segmentation

Precursor Free Cathode Materials for Solid-State Batteries market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

High Ni NMC (Ni 80-89%)

Ultra High Ni NMC (Ni ?90%)

Li Rich Mn Based (LMR)

Others

Market segment by Manufacturing Process

Direct Calcination (D2C)

Dry Electrode

Calendering

Pulsed Laser Deposition

Others

Market segment by Electrolyte Compatibility

Sulfide Compatible

Oxide Compatible

Polymer Compatible

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Halide Compatible

Others

Market segment by Application

Electric Vehicles

Consumer Electronics

Energy Storage Systems

Medical Devices

Others

Major players covered

LG Chem

Easpring

Ronbay Technology

XTC New Energy

Ecopro BM

POSCO Future M

Sumitomo Metal Mining

Ganfeng Lithium

CATL

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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

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Himadri Speciality Chemical

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Precursor Free Cathode Materials for Solid-State Batteries product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Precursor Free Cathode Materials for Solid-State Batteries, with price, sales quantity, revenue, and global market share of Precursor Free Cathode Materials for Solid-State Batteries from 2021 to 2026.

Chapter 3, the Precursor Free Cathode Materials for Solid-State Batteries competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Precursor Free Cathode Materials for Solid-State Batteries breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Precursor Free Cathode Materials for Solid-State Batteries market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Precursor Free Cathode Materials for Solid-State Batteries.

Chapter 14 and 15, to describe Precursor Free Cathode Materials for Solid-State Batteries sales channel, distributors, customers, research findings and conclusion.

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3 COMPETITIVE ENVIRONMENT: PRECURSOR FREE CATHODE MATERIALS FOR SOLID-STATE BATTERIES BY MANUFACTURER

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