

Global Precursor Free Cathode Materials for Solid-State Batteries Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Precursor Free Cathode Materials for Solid-State Batteries market size is expected to reach \$ 7054 million by 2032, rising at a market growth of 20.4% CAGR during the forecast period (2026-2032).

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.

This report studies the global Precursor Free Cathode Materials for Solid-State Batteries production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Precursor Free Cathode Materials for Solid-State Batteries 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 Precursor Free Cathode Materials for Solid-State Batteries that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Precursor Free Cathode Materials for Solid-State Batteries total production and demand, 2021-2032, (Tons)

Global Precursor Free Cathode Materials for Solid-State Batteries total production value, 2021-2032, (USD Million)

Global Precursor Free Cathode Materials for Solid-State Batteries production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Precursor Free Cathode Materials for Solid-State Batteries consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Precursor Free Cathode Materials for Solid-State Batteries domestic production, consumption, key domestic manufacturers and share

Global Precursor Free Cathode Materials for Solid-State Batteries production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Precursor Free Cathode Materials for Solid-State Batteries production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Precursor Free Cathode Materials for Solid-State Batteries production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Precursor Free Cathode Materials for Solid-State Batteries 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Precursor Free Cathode Materials for Solid-State Batteries market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Precursor Free Cathode Materials for Solid-State Batteries Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Precursor Free Cathode Materials for Solid-State Batteries Market,
Segmentation by Type:

High Ni NMC (Ni 80-89%)

Ultra High Ni NMC (Ni ≥90%)

Li Rich Mn Based (LMR)

Others

Global Precursor Free Cathode Materials for Solid-State Batteries Market,
Segmentation by Manufacturing Process:

Direct Calcination (D2C)

Dry Electrode

Calendering

Pulsed Laser Deposition

Others

Global Precursor Free Cathode Materials for Solid-State Batteries Market,
Segmentation by Electrolyte Compatibility:

Sulfide Compatible

Oxide Compatible

Polymer Compatible

Halide Compatible

Others

Global Precursor Free Cathode Materials for Solid-State Batteries Market,
Segmentation by Application:

Electric Vehicles

Consumer Electronics

Energy Storage Systems

Medical Devices

Others

Companies Profiled:

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 Answered:

1. How big is the global Precursor Free Cathode Materials for Solid-State Batteries market?
2. What is the demand of the global Precursor Free Cathode Materials for Solid-State Batteries market?
3. What is the year over year growth of the global Precursor Free Cathode Materials for Solid-State Batteries market?
4. What is the production and production value of the global Precursor Free Cathode Materials for Solid-State Batteries market?
5. Who are the key producers in the global Precursor Free Cathode Materials for Solid-State Batteries market?
6. What are the growth factors driving the market demand?

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