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# Global Composite Material for Battery Enclosures Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Composite Material for Battery Enclosures market size is expected to reach $ 623 million by 2032, rising at a market growth of 9.1% CAGR during the forecast period (2026-2032).

In 2025, global Composite Material for Battery Enclosures production reached approximately 55.1 K Tons, with an average global market price of around 6014 USD per Ton.

Composite Material for Battery Enclosures refers to a high-performance structural material specifically designed for the top cover, lower box, or protective structure of power battery packs in new energy vehicles. It is made of resin as the matrix and glass fiber/carbon fiber as the reinforcing material. It has the characteristics of lightweight, high strength, high modulus, flame retardancy, heat insulation, insulation and corrosion resistance, and easy molding of large-size parts. It can replace the traditional metal shell to achieve weight reduction and energy saving, while meeting the automotive-grade safety requirements such as battery pack sealing and protection, shock resistance, and suppression of thermal runaway propagation. It is a key material for achieving lightweight and safety upgrades of power battery systems.

With its core advantages of being lightweight yet high-strength, flame-retardant, heat-insulating, insulating, and corrosion-resistant, BPC precisely addresses the industry pain points of traditional metal casings: heavy weight, susceptibility to corrosion, insufficient impact resistance, and difficulty in meeting the demands of thermal runaway protection and integrated molding in battery packs. It solves both range anxiety and battery safety hazards in EVs, adapts to the development needs of integrated battery pack structures, and balances environmental friendliness and life-cycle economics. It

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fills the performance gap of traditional materials in automotive-grade battery protection, becoming a core alternative to metal casings.

The upstream raw materials for Composite Material for Battery Enclosures mainly fall into three categories: resin matrix, reinforcing fiber, and functional additives. Typical suppliers include Huntsman, Dow, BASF, Evonik, Solvay, Teijin, etc. Downstream users are mainly battery manufacturers and battery pack manufacturers, with typical users including CATL, BYD, etc.

The production capacity of a single production line for Composite Material for Battery Enclosures varies greatly depending on the molding process, product size and structural complexity, and the level of equipment automation. The industry gross profit margin is usually in the range of 20%-30%.

This report studies the global Composite Material for Battery Enclosures production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Composite Material for Battery Enclosures 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 Composite Material for Battery Enclosures that contribute to its increasing demand across many markets.

**Highlights and key features of the study**
Global Composite Material for Battery Enclosures total production and demand, 2021-2032, (Kilotons)
Global Composite Material for Battery Enclosures total production value, 2021-2032, (USD Million)
Global Composite Material for Battery Enclosures production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)
Global Composite Material for Battery Enclosures consumption by region & country, CAGR, 2021-2032 & (Kilotons)
U.S. VS China: Composite Material for Battery Enclosures domestic production, consumption, key domestic manufacturers and share
Global Composite Material for Battery Enclosures production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)
Global Composite Material for Battery Enclosures production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

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Global Composite Material for Battery Enclosures production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Composite Material for Battery Enclosures 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 BASF, LANXESS, SGL Carbon, Mitsubishi Chemical Group (MCG), IDI Composites International, Continental Structural Plastics (TEIJIN), Covestro AG, SABIC, LyondellBasell, Trinseo, 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 Composite Material for Battery Enclosures 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 Composite Material for Battery Enclosures Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Global Composite Material for Battery Enclosures Market, Segmentation by Type:

Thermoplastic Type

Thermosetting Type

Global Composite Material for Battery Enclosures Market, Segmentation by Processing:

SMC

BMC

Other

Global Composite Material for Battery Enclosures Market, Segmentation by Reinforcing Materials:

Glass Fiber

Carbon Fiber

Other

Global Composite Material for Battery Enclosures Market, Segmentation by Application:

Upper Cover

Lower Cover

Companies Profiled:

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BASF

LANXESS

SGL Carbon

Mitsubishi Chemical Group (MCG)

IDI Composites International

Continental Structural Plastics (TEIJIN)

Covestro AG

SABIC

LyondellBasell

Trinseo

Evonik Industries

Jiangsu Huaman Composite Material

Huayuan Advanced Materials

Techstorm

Zhejiang Zhenshi New Material

AdvancedComposite(Suzhou)Technology

ZheJiang Sanse Mold Plastic Technology

Disnflex

**Key Questions Answered:**

1. How big is the global Composite Material for Battery Enclosures market?

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2. What is the demand of the global Composite Material for Battery Enclosures market?
3. What is the year over year growth of the global Composite Material for Battery Enclosures market?
4. What is the production and production value of the global Composite Material for Battery Enclosures market?
5. Who are the key producers in the global Composite Material for Battery Enclosures market?
6. What are the growth factors driving the market demand?

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# Contents

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## 8 MARKET ANALYSIS BY APPLICATION



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