

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

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## Abstracts

The global Composite Material for Battery Box market size is expected to reach \$ 663 million by 2032, rising at a market growth of 8.5% CAGR during the forecast period (2026-2032).

In 2025, global Composite Material for Battery Box production reached approximately 56.7 K Tons, with an average global market price of around 6431 USD per Ton.

Composite Material for Battery Box 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 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 Box 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 Box 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 Box production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Composite Material for Battery Box total production and demand, 2021-2032, (Kilotons)

Global Composite Material for Battery Box total production value, 2021-2032, (USD Million)

Global Composite Material for Battery Box production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Composite Material for Battery Box consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Composite Material for Battery Box domestic production, consumption, key domestic manufacturers and share

Global Composite Material for Battery Box production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

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

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

This report profiles key players in the global Composite Material for Battery Box 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 Box 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 Box Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Composite Material for Battery Box Market, Segmentation by Type:

Thermoplastic Type

Thermosetting Type

### Global Composite Material for Battery Box Market, Segmentation by Processing:

SMC

BMC

Other

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

Glass Fiber

Carbon Fiber

Other

### Global Composite Material for Battery Box Market, Segmentation by Application:

Upper Cover

Lower Cover

### Companies Profiled:

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 Box market?
2. What is the demand of the global Composite Material for Battery Box market?
3. What is the year over year growth of the global Composite Material for Battery Box

market?

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

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

- 2.1 World Composite Material for Battery Box Demand (2021-2032)
- 2.2 World Composite Material for Battery Box Consumption by Region
  - 2.2.1 World Composite Material for Battery Box Consumption by Region (2021-2026)
  - 2.2.2 World Composite Material for Battery Box Consumption Forecast by Region (2027-2032)
- 2.3 United States Composite Material for Battery Box Consumption (2021-2032)
- 2.4 China Composite Material for Battery Box Consumption (2021-2032)
- 2.5 Europe Composite Material for Battery Box Consumption (2021-2032)
- 2.6 Japan Composite Material for Battery Box Consumption (2021-2032)
- 2.7 South Korea Composite Material for Battery Box Consumption (2021-2032)

2.8 ASEAN Composite Material for Battery Box Consumption (2021-2032)

2.9 India Composite Material for Battery Box Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Composite Material for Battery Box Production Value by Manufacturer (2021-2026)

3.2 World Composite Material for Battery Box Production by Manufacturer (2021-2026)

3.3 World Composite Material for Battery Box Average Price by Manufacturer (2021-2026)

3.4 Composite Material for Battery Box Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Composite Material for Battery Box Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Composite Material for Battery Box in 2025

3.5.3 Global Concentration Ratios (CR8) for Composite Material for Battery Box in 2025

3.6 Composite Material for Battery Box Market: Overall Company Footprint Analysis

3.6.1 Composite Material for Battery Box Market: Region Footprint

3.6.2 Composite Material for Battery Box Market: Company Product Type Footprint

3.6.3 Composite Material for Battery Box 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: Composite Material for Battery Box Production Value Comparison

4.1.1 United States VS China: Composite Material for Battery Box Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Composite Material for Battery Box Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Composite Material for Battery Box Production Comparison

4.2.1 United States VS China: Composite Material for Battery Box Production

Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Composite Material for Battery Box Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Composite Material for Battery Box Consumption Comparison

4.3.1 United States VS China: Composite Material for Battery Box Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Composite Material for Battery Box Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Composite Material for Battery Box Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Composite Material for Battery Box Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Composite Material for Battery Box Production Value (2021-2026)

4.4.3 United States Based Manufacturers Composite Material for Battery Box Production (2021-2026)

4.5 China Based Composite Material for Battery Box Manufacturers and Market Share

4.5.1 China Based Composite Material for Battery Box Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Composite Material for Battery Box Production Value (2021-2026)

4.5.3 China Based Manufacturers Composite Material for Battery Box Production (2021-2026)

4.6 Rest of World Based Composite Material for Battery Box Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Composite Material for Battery Box Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Composite Material for Battery Box Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Composite Material for Battery Box Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Composite Material for Battery Box Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Thermoplastic Type

### 5.2.2 Thermosetting Type

## 5.3 Market Segment by Type

### 5.3.1 World Composite Material for Battery Box Production by Type (2021-2032)

### 5.3.2 World Composite Material for Battery Box Production Value by Type (2021-2032)

### 5.3.3 World Composite Material for Battery Box Average Price by Type (2021-2032)

## 6 MARKET ANALYSIS BY PROCESSING

### 6.1 World Composite Material for Battery Box Market Size Overview by Processing: 2021 VS 2025 VS 2032

### 6.2 Segment Introduction by Processing

#### 6.2.1 SMC

#### 6.2.2 BMC

#### 6.2.3 Other

### 6.3 Market Segment by Processing

#### 6.3.1 World Composite Material for Battery Box Production by Processing (2021-2032)

#### 6.3.2 World Composite Material for Battery Box Production Value by Processing (2021-2032)

#### 6.3.3 World Composite Material for Battery Box Average Price by Processing (2021-2032)

## 7 MARKET ANALYSIS BY REINFORCING MATERIALS

### 7.1 World Composite Material for Battery Box Market Size Overview by Reinforcing Materials: 2021 VS 2025 VS 2032

### 7.2 Segment Introduction by Reinforcing Materials

#### 7.2.1 Glass Fiber

#### 7.2.2 Carbon Fiber

#### 7.2.3 Other

### 7.3 Market Segment by Reinforcing Materials

#### 7.3.1 World Composite Material for Battery Box Production by Reinforcing Materials (2021-2032)

#### 7.3.2 World Composite Material for Battery Box Production Value by Reinforcing Materials (2021-2032)

#### 7.3.3 World Composite Material for Battery Box Average Price by Reinforcing Materials (2021-2032)

## 8 MARKET ANALYSIS BY APPLICATION

8.1 World Composite Material for Battery Box Market Size Overview by Application:  
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Upper Cover

8.2.2 Lower Cover

8.3 Market Segment by Application

8.3.1 World Composite Material for Battery Box Production by Application (2021-2032)

8.3.2 World Composite Material for Battery Box Production Value by Application  
(2021-2032)

8.3.3 World Composite Material for Battery Box Average Price by Application  
(2021-2032)

## **9 COMPANY PROFILES**

9.1 BASF

9.1.1 BASF Details

9.1.2 BASF Major Business

9.1.3 BASF Composite Material for Battery Box Product and Services

9.1.4 BASF Composite Material for Battery Box Production, Price, Value, Gross  
Margin and Market Share (2021-2026)

9.1.5 BASF Recent Developments/Updates

9.1.6 BASF Competitive Strengths & Weaknesses

9.2 LANXESS

9.2.1 LANXESS Details

9.2.2 LANXESS Major Business

9.2.3 LANXESS Composite Material for Battery Box Product and Services

9.2.4 LANXESS Composite Material for Battery Box Production, Price, Value, Gross  
Margin and Market Share (2021-2026)

9.2.5 LANXESS Recent Developments/Updates

9.2.6 LANXESS Competitive Strengths & Weaknesses

9.3 SGL Carbon

9.3.1 SGL Carbon Details

9.3.2 SGL Carbon Major Business

9.3.3 SGL Carbon Composite Material for Battery Box Product and Services

9.3.4 SGL Carbon Composite Material for Battery Box Production, Price, Value, Gross  
Margin and Market Share (2021-2026)

9.3.5 SGL Carbon Recent Developments/Updates

9.3.6 SGL Carbon Competitive Strengths & Weaknesses

9.4 Mitsubishi Chemical Group (MCG)

- 9.4.1 Mitsubishi Chemical Group (MCG) Details
- 9.4.2 Mitsubishi Chemical Group (MCG) Major Business
- 9.4.3 Mitsubishi Chemical Group (MCG) Composite Material for Battery Box Product and Services
- 9.4.4 Mitsubishi Chemical Group (MCG) Composite Material for Battery Box Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Mitsubishi Chemical Group (MCG) Recent Developments/Updates
- 9.4.6 Mitsubishi Chemical Group (MCG) Competitive Strengths & Weaknesses
- 9.5 IDI Composites International
  - 9.5.1 IDI Composites International Details
  - 9.5.2 IDI Composites International Major Business
  - 9.5.3 IDI Composites International Composite Material for Battery Box Product and Services
  - 9.5.4 IDI Composites International Composite Material for Battery Box Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 IDI Composites International Recent Developments/Updates
  - 9.5.6 IDI Composites International Competitive Strengths & Weaknesses
- 9.6 Continental Structural Plastics (TEIJIN)
  - 9.6.1 Continental Structural Plastics (TEIJIN) Details
  - 9.6.2 Continental Structural Plastics (TEIJIN) Major Business
  - 9.6.3 Continental Structural Plastics (TEIJIN) Composite Material for Battery Box Product and Services
  - 9.6.4 Continental Structural Plastics (TEIJIN) Composite Material for Battery Box Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Continental Structural Plastics (TEIJIN) Recent Developments/Updates
  - 9.6.6 Continental Structural Plastics (TEIJIN) Competitive Strengths & Weaknesses
- 9.7 Covestro AG
  - 9.7.1 Covestro AG Details
  - 9.7.2 Covestro AG Major Business
  - 9.7.3 Covestro AG Composite Material for Battery Box Product and Services
  - 9.7.4 Covestro AG Composite Material for Battery Box Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Covestro AG Recent Developments/Updates
  - 9.7.6 Covestro AG Competitive Strengths & Weaknesses
- 9.8 SABIC
  - 9.8.1 SABIC Details
  - 9.8.2 SABIC Major Business
  - 9.8.3 SABIC Composite Material for Battery Box Product and Services
  - 9.8.4 SABIC Composite Material for Battery Box Production, Price, Value, Gross

## Margin and Market Share (2021-2026)

9.8.5 SABIC Recent Developments/Updates

9.8.6 SABIC Competitive Strengths & Weaknesses

## 9.9 LyondellBasell

9.9.1 LyondellBasell Details

9.9.2 LyondellBasell Major Business

9.9.3 LyondellBasell Composite Material for Battery Box Product and Services

9.9.4 LyondellBasell Composite Material for Battery Box Production, Price, Value, Gross Margin and Market Share (2021-2026)

## Gross Margin and Market Share (2021-2026)

9.9.5 LyondellBasell Recent Developments/Updates

9.9.6 LyondellBasell Competitive Strengths & Weaknesses

## 9.10 Trinseo

9.10.1 Trinseo Details

9.10.2 Trinseo Major Business

9.10.3 Trinseo Composite Material for Battery Box Product and Services

9.10.4 Trinseo Composite Material for Battery Box Production, Price, Value, Gross Margin and Market Share (2021-2026)

## Gross Margin and Market Share (2021-2026)

9.10.5 Trinseo Recent Developments/Updates

9.10.6 Trinseo Competitive Strengths & Weaknesses

## 9.11 Evonik Industries

9.11.1 Evonik Industries Details

9.11.2 Evonik Industries Major Business

9.11.3 Evonik Industries Composite Material for Battery Box Product and Services

9.11.4 Evonik Industries Composite Material for Battery Box Production, Price, Value, Gross Margin and Market Share (2021-2026)

## Gross Margin and Market Share (2021-2026)

9.11.5 Evonik Industries Recent Developments/Updates

9.11.6 Evonik Industries Competitive Strengths & Weaknesses

## 9.12 Jiangsu Huaman Composite Material

9.12.1 Jiangsu Huaman Composite Material Details

9.12.2 Jiangsu Huaman Composite Material Major Business

9.12.3 Jiangsu Huaman Composite Material Composite Material for Battery Box Product and Services

9.12.4 Jiangsu Huaman Composite Material Composite Material for Battery Box Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Jiangsu Huaman Composite Material Recent Developments/Updates

9.12.6 Jiangsu Huaman Composite Material Competitive Strengths & Weaknesses

## 9.13 Huayuan Advanced Materials

9.13.1 Huayuan Advanced Materials Details

9.13.2 Huayuan Advanced Materials Major Business

- 9.13.3 Huayuan Advanced Materials Composite Material for Battery Box Product and Services
- 9.13.4 Huayuan Advanced Materials Composite Material for Battery Box Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.13.5 Huayuan Advanced Materials Recent Developments/Updates
- 9.13.6 Huayuan Advanced Materials Competitive Strengths & Weaknesses
- 9.14 Techstorm
  - 9.14.1 Techstorm Details
  - 9.14.2 Techstorm Major Business
  - 9.14.3 Techstorm Composite Material for Battery Box Product and Services
  - 9.14.4 Techstorm Composite Material for Battery Box Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.14.5 Techstorm Recent Developments/Updates
  - 9.14.6 Techstorm Competitive Strengths & Weaknesses
- 9.15 Zhejiang Zhenshi New Material
  - 9.15.1 Zhejiang Zhenshi New Material Details
  - 9.15.2 Zhejiang Zhenshi New Material Major Business
  - 9.15.3 Zhejiang Zhenshi New Material Composite Material for Battery Box Product and Services
  - 9.15.4 Zhejiang Zhenshi New Material Composite Material for Battery Box Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.15.5 Zhejiang Zhenshi New Material Recent Developments/Updates
  - 9.15.6 Zhejiang Zhenshi New Material Competitive Strengths & Weaknesses
- 9.16 AdvancedComposite(Suzhou)Technology
  - 9.16.1 AdvancedComposite(Suzhou)Technology Details
  - 9.16.2 AdvancedComposite(Suzhou)Technology Major Business
  - 9.16.3 AdvancedComposite(Suzhou)Technology Composite Material for Battery Box Product and Services
  - 9.16.4 AdvancedComposite(Suzhou)Technology Composite Material for Battery Box Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.16.5 AdvancedComposite(Suzhou)Technology Recent Developments/Updates
  - 9.16.6 AdvancedComposite(Suzhou)Technology Competitive Strengths & Weaknesses
- 9.17 ZheJiang Sanshe Mold Plastic Technology
  - 9.17.1 ZheJiang Sanshe Mold Plastic Technology Details
  - 9.17.2 ZheJiang Sanshe Mold Plastic Technology Major Business
  - 9.17.3 ZheJiang Sanshe Mold Plastic Technology Composite Material for Battery Box Product and Services
  - 9.17.4 ZheJiang Sanshe Mold Plastic Technology Composite Material for Battery Box

Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 ZheJiang Sanshe Mold Plastic Technology Recent Developments/Updates

9.17.6 ZheJiang Sanshe Mold Plastic Technology Competitive Strengths & Weaknesses

9.18 Disnflex

9.18.1 Disnflex Details

9.18.2 Disnflex Major Business

9.18.3 Disnflex Composite Material for Battery Box Product and Services

9.18.4 Disnflex Composite Material for Battery Box Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Disnflex Recent Developments/Updates

9.18.6 Disnflex Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 Composite Material for Battery Box Industry Chain

10.2 Composite Material for Battery Box Upstream Analysis

10.2.1 Composite Material for Battery Box Core Raw Materials

10.2.2 Main Manufacturers of Composite Material for Battery Box Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Composite Material for Battery Box Production Mode

10.6 Composite Material for Battery Box Procurement Model

10.7 Composite Material for Battery Box Industry Sales Model and Sales Channels

10.7.1 Composite Material for Battery Box Sales Model

10.7.2 Composite Material for Battery Box 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 Composite Material for Battery Box Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Composite Material for Battery Box Production Value by Region (2021-2026) & (USD Million)

Table 3. World Composite Material for Battery Box Production Value by Region (2027-2032) & (USD Million)

Table 4. World Composite Material for Battery Box Production Value Market Share by Region (2021-2026)

Table 5. World Composite Material for Battery Box Production Value Market Share by Region (2027-2032)

Table 6. World Composite Material for Battery Box Production by Region (2021-2026) & (Kilotons)

Table 7. World Composite Material for Battery Box Production by Region (2027-2032) & (Kilotons)

Table 8. World Composite Material for Battery Box Production Market Share by Region (2021-2026)

Table 9. World Composite Material for Battery Box Production Market Share by Region (2027-2032)

Table 10. World Composite Material for Battery Box Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Composite Material for Battery Box Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Composite Material for Battery Box Major Market Trends

Table 13. World Composite Material for Battery Box Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Composite Material for Battery Box Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Composite Material for Battery Box Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Composite Material for Battery Box Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Composite Material for Battery Box Producers in 2025

Table 18. World Composite Material for Battery Box Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Composite Material for Battery Box Producers in 2025

Table 20. World Composite Material for Battery Box Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Composite Material for Battery Box Company Evaluation Quadrant

Table 22. World Composite Material for Battery Box Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Composite Material for Battery Box Production Site of Key Manufacturer

Table 24. Composite Material for Battery Box Market: Company Product Type Footprint

Table 25. Composite Material for Battery Box Market: Company Product Application Footprint

Table 26. Composite Material for Battery Box Competitive Factors

Table 27. Composite Material for Battery Box New Entrant and Capacity Expansion Plans

Table 28. Composite Material for Battery Box Mergers & Acquisitions Activity

Table 29. United States VS China Composite Material for Battery Box Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Composite Material for Battery Box Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Composite Material for Battery Box Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Composite Material for Battery Box Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Composite Material for Battery Box Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Composite Material for Battery Box Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Composite Material for Battery Box Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Composite Material for Battery Box Production Market Share (2021-2026)

Table 37. China Based Composite Material for Battery Box Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Composite Material for Battery Box Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Composite Material for Battery Box Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Composite Material for Battery Box Production,

(2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Composite Material for Battery Box Production Market Share (2021-2026)

Table 42. Rest of World Based Composite Material for Battery Box Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Composite Material for Battery Box Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Composite Material for Battery Box Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Composite Material for Battery Box Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Composite Material for Battery Box Production Market Share (2021-2026)

Table 47. World Composite Material for Battery Box Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Composite Material for Battery Box Production by Type (2021-2026) & (Kilotons)

Table 49. World Composite Material for Battery Box Production by Type (2027-2032) & (Kilotons)

Table 50. World Composite Material for Battery Box Production Value by Type (2021-2026) & (USD Million)

Table 51. World Composite Material for Battery Box Production Value by Type (2027-2032) & (USD Million)

Table 52. World Composite Material for Battery Box Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Composite Material for Battery Box Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Composite Material for Battery Box Production Value by Processing, (USD Million), 2021 & 2025 & 2032

Table 55. World Composite Material for Battery Box Production by Processing (2021-2026) & (Kilotons)

Table 56. World Composite Material for Battery Box Production by Processing (2027-2032) & (Kilotons)

Table 57. World Composite Material for Battery Box Production Value by Processing (2021-2026) & (USD Million)

Table 58. World Composite Material for Battery Box Production Value by Processing (2027-2032) & (USD Million)

Table 59. World Composite Material for Battery Box Average Price by Processing (2021-2026) & (US\$/Ton)

Table 60. World Composite Material for Battery Box Average Price by Processing (2027-2032) & (US\$/Ton)

Table 61. World Composite Material for Battery Box Production Value by Reinforcing Materials, (USD Million), 2021 & 2025 & 2032

Table 62. World Composite Material for Battery Box Production by Reinforcing Materials (2021-2026) & (Kilotons)

Table 63. World Composite Material for Battery Box Production by Reinforcing Materials (2027-2032) & (Kilotons)

Table 64. World Composite Material for Battery Box Production Value by Reinforcing Materials (2021-2026) & (USD Million)

Table 65. World Composite Material for Battery Box Production Value by Reinforcing Materials (2027-2032) & (USD Million)

Table 66. World Composite Material for Battery Box Average Price by Reinforcing Materials (2021-2026) & (US\$/Ton)

Table 67. World Composite Material for Battery Box Average Price by Reinforcing Materials (2027-2032) & (US\$/Ton)

Table 68. World Composite Material for Battery Box Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Composite Material for Battery Box Production by Application (2021-2026) & (Kilotons)

Table 70. World Composite Material for Battery Box Production by Application (2027-2032) & (Kilotons)

Table 71. World Composite Material for Battery Box Production Value by Application (2021-2026) & (USD Million)

Table 72. World Composite Material for Battery Box Production Value by Application (2027-2032) & (USD Million)

Table 73. World Composite Material for Battery Box Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Composite Material for Battery Box Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. BASF Basic Information, Manufacturing Base and Competitors

Table 76. BASF Major Business

Table 77. BASF Composite Material for Battery Box Product and Services

Table 78. BASF Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. BASF Recent Developments/Updates

Table 80. BASF Competitive Strengths & Weaknesses

Table 81. LANXESS Basic Information, Manufacturing Base and Competitors

Table 82. LANXESS Major Business

Table 83. LANXESS Composite Material for Battery Box Product and Services

Table 84. LANXESS Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. LANXESS Recent Developments/Updates

Table 86. LANXESS Competitive Strengths & Weaknesses

Table 87. SGL Carbon Basic Information, Manufacturing Base and Competitors

Table 88. SGL Carbon Major Business

Table 89. SGL Carbon Composite Material for Battery Box Product and Services

Table 90. SGL Carbon Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. SGL Carbon Recent Developments/Updates

Table 92. SGL Carbon Competitive Strengths & Weaknesses

Table 93. Mitsubishi Chemical Group (MCG) Basic Information, Manufacturing Base and Competitors

Table 94. Mitsubishi Chemical Group (MCG) Major Business

Table 95. Mitsubishi Chemical Group (MCG) Composite Material for Battery Box Product and Services

Table 96. Mitsubishi Chemical Group (MCG) Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Mitsubishi Chemical Group (MCG) Recent Developments/Updates

Table 98. Mitsubishi Chemical Group (MCG) Competitive Strengths & Weaknesses

Table 99. IDI Composites International Basic Information, Manufacturing Base and Competitors

Table 100. IDI Composites International Major Business

Table 101. IDI Composites International Composite Material for Battery Box Product and Services

Table 102. IDI Composites International Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. IDI Composites International Recent Developments/Updates

Table 104. IDI Composites International Competitive Strengths & Weaknesses

Table 105. Continental Structural Plastics (TEIJIN) Basic Information, Manufacturing Base and Competitors

Table 106. Continental Structural Plastics (TEIJIN) Major Business

Table 107. Continental Structural Plastics (TEIJIN) Composite Material for Battery Box

## Product and Services

Table 108. Continental Structural Plastics (TEIJIN) Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Continental Structural Plastics (TEIJIN) Recent Developments/Updates

Table 110. Continental Structural Plastics (TEIJIN) Competitive Strengths & Weaknesses

Table 111. Covestro AG Basic Information, Manufacturing Base and Competitors

Table 112. Covestro AG Major Business

Table 113. Covestro AG Composite Material for Battery Box Product and Services

Table 114. Covestro AG Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Covestro AG Recent Developments/Updates

Table 116. Covestro AG Competitive Strengths & Weaknesses

Table 117. SABIC Basic Information, Manufacturing Base and Competitors

Table 118. SABIC Major Business

Table 119. SABIC Composite Material for Battery Box Product and Services

Table 120. SABIC Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. SABIC Recent Developments/Updates

Table 122. SABIC Competitive Strengths & Weaknesses

Table 123. LyondellBasell Basic Information, Manufacturing Base and Competitors

Table 124. LyondellBasell Major Business

Table 125. LyondellBasell Composite Material for Battery Box Product and Services

Table 126. LyondellBasell Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. LyondellBasell Recent Developments/Updates

Table 128. LyondellBasell Competitive Strengths & Weaknesses

Table 129. Trinseo Basic Information, Manufacturing Base and Competitors

Table 130. Trinseo Major Business

Table 131. Trinseo Composite Material for Battery Box Product and Services

Table 132. Trinseo Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Trinseo Recent Developments/Updates

Table 134. Trinseo Competitive Strengths & Weaknesses

Table 135. Evonik Industries Basic Information, Manufacturing Base and Competitors

Table 136. Evonik Industries Major Business

Table 137. Evonik Industries Composite Material for Battery Box Product and Services

Table 138. Evonik Industries Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Evonik Industries Recent Developments/Updates

Table 140. Evonik Industries Competitive Strengths & Weaknesses

Table 141. Jiangsu Huaman Composite Material Basic Information, Manufacturing Base and Competitors

Table 142. Jiangsu Huaman Composite Material Major Business

Table 143. Jiangsu Huaman Composite Material Composite Material for Battery Box Product and Services

Table 144. Jiangsu Huaman Composite Material Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Jiangsu Huaman Composite Material Recent Developments/Updates

Table 146. Jiangsu Huaman Composite Material Competitive Strengths & Weaknesses

Table 147. Huayuan Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 148. Huayuan Advanced Materials Major Business

Table 149. Huayuan Advanced Materials Composite Material for Battery Box Product and Services

Table 150. Huayuan Advanced Materials Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Huayuan Advanced Materials Recent Developments/Updates

Table 152. Huayuan Advanced Materials Competitive Strengths & Weaknesses

Table 153. Techstorm Basic Information, Manufacturing Base and Competitors

Table 154. Techstorm Major Business

Table 155. Techstorm Composite Material for Battery Box Product and Services

Table 156. Techstorm Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Techstorm Recent Developments/Updates

Table 158. Techstorm Competitive Strengths & Weaknesses

Table 159. Zhejiang Zhenshi New Material Basic Information, Manufacturing Base and Competitors

Table 160. Zhejiang Zhenshi New Material Major Business

Table 161. Zhejiang Zhenshi New Material Composite Material for Battery Box Product and Services

Table 162. Zhejiang Zhenshi New Material Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Zhejiang Zhenshi New Material Recent Developments/Updates

Table 164. Zhejiang Zhenshi New Material Competitive Strengths & Weaknesses

Table 165. AdvancedComposite(Suzhou)Technology Basic Information, Manufacturing Base and Competitors

Table 166. AdvancedComposite(Suzhou)Technology Major Business

Table 167. AdvancedComposite(Suzhou)Technology Composite Material for Battery Box Product and Services

Table 168. AdvancedComposite(Suzhou)Technology Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. AdvancedComposite(Suzhou)Technology Recent Developments/Updates

Table 170. AdvancedComposite(Suzhou)Technology Competitive Strengths & Weaknesses

Table 171. ZheJiang Sanse Mold Plastic Technology Basic Information, Manufacturing Base and Competitors

Table 172. ZheJiang Sanse Mold Plastic Technology Major Business

Table 173. ZheJiang Sanse Mold Plastic Technology Composite Material for Battery Box Product and Services

Table 174. ZheJiang Sanse Mold Plastic Technology Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. ZheJiang Sanse Mold Plastic Technology Recent Developments/Updates

Table 176. ZheJiang Sanse Mold Plastic Technology Competitive Strengths & Weaknesses

Table 177. Disnflex Basic Information, Manufacturing Base and Competitors

Table 178. Disnflex Major Business

Table 179. Disnflex Composite Material for Battery Box Product and Services

Table 180. Disnflex Composite Material for Battery Box Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Disnflex Recent Developments/Updates

Table 182. Disnflex Competitive Strengths & Weaknesses

Table 183. Global Key Players of Composite Material for Battery Box Upstream (Raw Materials)

Table 184. Global Composite Material for Battery Box Typical Customers

Table 185. Composite Material for Battery Box Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Composite Material for Battery Box Picture

Figure 2. World Composite Material for Battery Box Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Composite Material for Battery Box Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Composite Material for Battery Box Production (2021-2032) & (Kilotons)

Figure 5. World Composite Material for Battery Box Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Composite Material for Battery Box Production Value Market Share by Region (2021-2032)

Figure 7. World Composite Material for Battery Box Production Market Share by Region (2021-2032)

Figure 8. North America Composite Material for Battery Box Production (2021-2032) & (Kilotons)

Figure 9. Europe Composite Material for Battery Box Production (2021-2032) & (Kilotons)

Figure 10. China Composite Material for Battery Box Production (2021-2032) & (Kilotons)

Figure 11. Japan Composite Material for Battery Box Production (2021-2032) & (Kilotons)

Figure 12. India Composite Material for Battery Box Production (2021-2032) & (Kilotons)

Figure 13. Southeast Asia Composite Material for Battery Box Production (2021-2032) & (Kilotons)

Figure 14. Composite Material for Battery Box Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Composite Material for Battery Box Consumption (2021-2032) & (Kilotons)

Figure 17. World Composite Material for Battery Box Consumption Market Share by Region (2021-2032)

Figure 18. United States Composite Material for Battery Box Consumption (2021-2032) & (Kilotons)

Figure 19. China Composite Material for Battery Box Consumption (2021-2032) & (Kilotons)

Figure 20. Europe Composite Material for Battery Box Consumption (2021-2032) & (Kilotons)

Figure 21. Japan Composite Material for Battery Box Consumption (2021-2032) & (Kilotons)

Figure 22. South Korea Composite Material for Battery Box Consumption (2021-2032) & (Kilotons)

Figure 23. ASEAN Composite Material for Battery Box Consumption (2021-2032) & (Kilotons)

Figure 24. India Composite Material for Battery Box Consumption (2021-2032) & (Kilotons)

Figure 25. Producer Shipments of Composite Material for Battery Box by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Composite Material for Battery Box Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Composite Material for Battery Box Markets in 2025

Figure 28. United States VS China: Composite Material for Battery Box Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Composite Material for Battery Box Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Composite Material for Battery Box Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Composite Material for Battery Box Production Market Share 2025

Figure 32. China Based Manufacturers Composite Material for Battery Box Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Composite Material for Battery Box Production Market Share 2025

Figure 34. World Composite Material for Battery Box Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Composite Material for Battery Box Production Value Market Share by Type in 2025

Figure 36. Thermoplastic Type

Figure 37. Thermosetting Type

Figure 38. World Composite Material for Battery Box Production Market Share by Type (2021-2032)

Figure 39. World Composite Material for Battery Box Production Value Market Share by Type (2021-2032)

Figure 40. World Composite Material for Battery Box Average Price by Type (2021-2032) & (US\$/Ton)

Figure 41. World Composite Material for Battery Box Production Value by Processing,

(USD Million), 2021 & 2025 & 2032

Figure 42. World Composite Material for Battery Box Production Value Market Share by Processing in 2025

Figure 43. SMC

Figure 44. BMC

Figure 45. Other

Figure 46. World Composite Material for Battery Box Production Market Share by Processing (2021-2032)

Figure 47. World Composite Material for Battery Box Production Value Market Share by Processing (2021-2032)

Figure 48. World Composite Material for Battery Box Average Price by Processing (2021-2032) & (US\$/Ton)

Figure 49. World Composite Material for Battery Box Production Value by Reinforcing Materials, (USD Million), 2021 & 2025 & 2032

Figure 50. World Composite Material for Battery Box Production Value Market Share by Reinforcing Materials in 2025

Figure 51. Glass Fiber

Figure 52. Carbon Fiber

Figure 53. Other

Figure 54. World Composite Material for Battery Box Production Market Share by Reinforcing Materials (2021-2032)

Figure 55. World Composite Material for Battery Box Production Value Market Share by Reinforcing Materials (2021-2032)

Figure 56. World Composite Material for Battery Box Average Price by Reinforcing Materials (2021-2032) & (US\$/Ton)

Figure 57. World Composite Material for Battery Box Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Composite Material for Battery Box Production Value Market Share by Application in 2025

Figure 59. Upper Cover

Figure 60. Lower Cover

Figure 61. World Composite Material for Battery Box Production Market Share by Application (2021-2032)

Figure 62. World Composite Material for Battery Box Production Value Market Share by Application (2021-2032)

Figure 63. World Composite Material for Battery Box Average Price by Application (2021-2032) & (US\$/Ton)

Figure 64. Composite Material for Battery Box Industry Chain

Figure 65. Composite Material for Battery Box Procurement Model

Figure 66. Composite Material for Battery Box Sales Model

Figure 67. Composite Material for Battery Box Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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