

Global Multi-Material Composite Battery Enclosure Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G78B32A38334EN.html>

Date: May 2026

Pages: 134

Price: US\$ 4,480.00 (Single User License)

ID: G78B32A38334EN

Abstracts

The global Multi-Material Composite Battery Enclosure market size is expected to reach \$ 1322 million by 2032, rising at a market growth of 18.0% CAGR during the forecast period (2026-2032).

In 2025, global Multi-Material Composite Battery Enclosures production reached approximately 2359 K Units, with an average global market price of around 168 USD per Unit.

Multi-Material Composite Battery Enclosures are high-performance, lightweight structural components, typically formed by molding reinforcing fibers (carbon fiber, glass fiber, etc.) and a resin matrix (epoxy, polyester, PA, etc.) through processes such as compression molding and injection molding. Their core function is to provide an integrated solution for battery systems, offering mechanical protection, electrical insulation, thermal management, corrosion resistance, and structural integration while achieving extreme lightweighting.

Multi-Material Composite Battery Enclosures, with their unique characteristics of high specific strength, extreme lightweight, natural insulation, flame retardancy and heat insulation, corrosion resistance and aging resistance, and highly integrated and designable features, precisely address the core pain points of the current new energy vehicle industry: with a lightweight effect far superior to metal, it effectively solves range anxiety and energy density bottlenecks, while with stronger impact resistance, compression resistance and heat insulation and flame retardancy, it builds a key safety barrier for battery thermal runaway protection. Its insulation and corrosion resistance properties thoroughly solve the industry problems of metal shells being prone to short circuits, corrosion, and frequent maintenance. And through one-piece molding, it is

perfectly adapted to next-generation integration technologies such as CTP/CTC, greatly simplifying assembly and improving space utilization and production efficiency. Driven by the rapid expansion of the global new energy vehicle industry, continuous policy support for lightweighting and safety upgrades, and automakers' competitive pursuit of range breakthroughs and cost optimization, Multi-Material Composite Battery Enclosures are gradually penetrating from high-end models to all product categories. With its comprehensive advantages in performance, safety, efficiency, and life-cycle value, it has become the mainstream direction for battery pack structure upgrades. In the future, as material costs decrease and processes mature, its market application space will be fully opened up, not only deeply empowering the innovation of the new energy vehicle industry, but also expected to extend to fields such as energy storage and special equipment, growing into a key structural track supporting the high-quality development of the new energy ecosystem, with broad and certain growth potential.

The upstream components of Multi-Material Composite Battery Enclosures fall into three main categories: resin matrix, reinforcing fibers, and functional additives. Typical suppliers include Huntsman, Dow, BASF, Evonik, Solvay, and Teijin. Downstream users are primarily battery manufacturers and battery pack manufacturers, with typical users including CATL and BYD.

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

This report studies the global Multi-Material Composite Battery Enclosure production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Multi-Material Composite Battery Enclosure total production and demand, 2021-2032, (K Units)

Global Multi-Material Composite Battery Enclosure total production value, 2021-2032, (USD Million)

Global Multi-Material Composite Battery Enclosure production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Multi-Material Composite Battery Enclosure consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Multi-Material Composite Battery Enclosure domestic production, consumption, key domestic manufacturers and share

Global Multi-Material Composite Battery Enclosure production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Multi-Material Composite Battery Enclosure production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Multi-Material Composite Battery Enclosure production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Multi-Material Composite Battery Enclosure 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 SGL Carbon, Valeo, Kautex Textron, LION Smart GmbH, Shandong Shuangyi Technology, GRAD Group, Jiangsu Huaman Composite Material, Zhejiang Zhenshi New Material, AdvancedComposite(Suzhou)Technology, ZheJiang Sanse Mold Plastic Technology, 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 Multi-Material Composite Battery Enclosure market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Multi-Material Composite Battery Enclosure Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Multi-Material Composite Battery Enclosure Market, Segmentation by Type:

Thermoplastic Type

Thermosetting Type

Global Multi-Material Composite Battery Enclosure Market, Segmentation by Processing:

SMC

BMC

Other

Global Multi-Material Composite Battery Enclosure Market, Segmentation by Reinforcing Materials:

Glass Fiber

Carbon Fiber

Other

Global Multi-Material Composite Battery Enclosure Market, Segmentation by Application:

Covers

Trays

Companies Profiled:

SGL Carbon

Valeo

Kautex Textron

LION Smart GmbH

Shandong Shuangyi Technology

GRAD Group

Jiangsu Huaman Composite Material

Zhejiang Zhenshi New Material

AdvancedComposite(Suzhou)Technology

ZheJiang Sanse Mold Plastic Technology

Shanhu Auto Decoration

San He Ji Chuang

Qinyang Yaxin Composite Materials

Key Questions Answered:

1. How big is the global Multi-Material Composite Battery Enclosure market?
2. What is the demand of the global Multi-Material Composite Battery Enclosure market?
3. What is the year over year growth of the global Multi-Material Composite Battery Enclosure market?
4. What is the production and production value of the global Multi-Material Composite Battery Enclosure market?
5. Who are the key producers in the global Multi-Material Composite Battery Enclosure market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Multi-Material Composite Battery Enclosure Demand (2021-2032)
- 2.2 World Multi-Material Composite Battery Enclosure Consumption by Region
 - 2.2.1 World Multi-Material Composite Battery Enclosure Consumption by Region (2021-2026)
 - 2.2.2 World Multi-Material Composite Battery Enclosure Consumption Forecast by Region (2027-2032)

2.3 United States Multi-Material Composite Battery Enclosure Consumption (2021-2032)

2.4 China Multi-Material Composite Battery Enclosure Consumption (2021-2032)

2.5 Europe Multi-Material Composite Battery Enclosure Consumption (2021-2032)

2.6 Japan Multi-Material Composite Battery Enclosure Consumption (2021-2032)

2.7 South Korea Multi-Material Composite Battery Enclosure Consumption (2021-2032)

2.8 ASEAN Multi-Material Composite Battery Enclosure Consumption (2021-2032)

2.9 India Multi-Material Composite Battery Enclosure Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Multi-Material Composite Battery Enclosure Production Value by Manufacturer (2021-2026)

3.2 World Multi-Material Composite Battery Enclosure Production by Manufacturer (2021-2026)

3.3 World Multi-Material Composite Battery Enclosure Average Price by Manufacturer (2021-2026)

3.4 Multi-Material Composite Battery Enclosure Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Multi-Material Composite Battery Enclosure Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Multi-Material Composite Battery Enclosure in 2025

3.5.3 Global Concentration Ratios (CR8) for Multi-Material Composite Battery Enclosure in 2025

3.6 Multi-Material Composite Battery Enclosure Market: Overall Company Footprint Analysis

3.6.1 Multi-Material Composite Battery Enclosure Market: Region Footprint

3.6.2 Multi-Material Composite Battery Enclosure Market: Company Product Type Footprint

3.6.3 Multi-Material Composite Battery Enclosure 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: Multi-Material Composite Battery Enclosure Production Value Comparison

4.1.1 United States VS China: Multi-Material Composite Battery Enclosure Production Value Comparison (2021 & 2025 & 2032)

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

4.2 United States VS China: Multi-Material Composite Battery Enclosure Production Comparison

4.2.1 United States VS China: Multi-Material Composite Battery Enclosure Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Multi-Material Composite Battery Enclosure Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Multi-Material Composite Battery Enclosure Consumption Comparison

4.3.1 United States VS China: Multi-Material Composite Battery Enclosure Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Multi-Material Composite Battery Enclosure Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Multi-Material Composite Battery Enclosure Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Multi-Material Composite Battery Enclosure Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Multi-Material Composite Battery Enclosure Production Value (2021-2026)

4.4.3 United States Based Manufacturers Multi-Material Composite Battery Enclosure Production (2021-2026)

4.5 China Based Multi-Material Composite Battery Enclosure Manufacturers and Market Share

4.5.1 China Based Multi-Material Composite Battery Enclosure Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Multi-Material Composite Battery Enclosure Production Value (2021-2026)

4.5.3 China Based Manufacturers Multi-Material Composite Battery Enclosure Production (2021-2026)

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

4.6.1 Rest of World Based Multi-Material Composite Battery Enclosure Manufacturers,

Headquarters and Production Site (State, Country)

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

4.6.3 Rest of World Based Manufacturers Multi-Material Composite Battery Enclosure Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Multi-Material Composite Battery Enclosure 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 Multi-Material Composite Battery Enclosure Production by Type (2021-2032)

5.3.2 World Multi-Material Composite Battery Enclosure Production Value by Type (2021-2032)

5.3.3 World Multi-Material Composite Battery Enclosure Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PROCESSING

6.1 World Multi-Material Composite Battery Enclosure 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 Multi-Material Composite Battery Enclosure Production by Processing (2021-2032)

6.3.2 World Multi-Material Composite Battery Enclosure Production Value by Processing (2021-2032)

6.3.3 World Multi-Material Composite Battery Enclosure Average Price by Processing (2021-2032)

7 MARKET ANALYSIS BY REINFORCING MATERIALS

- 7.1 World Multi-Material Composite Battery Enclosure 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 Multi-Material Composite Battery Enclosure Production by Reinforcing Materials (2021-2032)
 - 7.3.2 World Multi-Material Composite Battery Enclosure Production Value by Reinforcing Materials (2021-2032)
 - 7.3.3 World Multi-Material Composite Battery Enclosure Average Price by Reinforcing Materials (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Multi-Material Composite Battery Enclosure Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Covers
 - 8.2.2 Trays
- 8.3 Market Segment by Application
 - 8.3.1 World Multi-Material Composite Battery Enclosure Production by Application (2021-2032)
 - 8.3.2 World Multi-Material Composite Battery Enclosure Production Value by Application (2021-2032)
 - 8.3.3 World Multi-Material Composite Battery Enclosure Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 SGL Carbon
 - 9.1.1 SGL Carbon Details
 - 9.1.2 SGL Carbon Major Business
 - 9.1.3 SGL Carbon Multi-Material Composite Battery Enclosure Product and Services
 - 9.1.4 SGL Carbon Multi-Material Composite Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.1.5 SGL Carbon Recent Developments/Updates
 - 9.1.6 SGL Carbon Competitive Strengths & Weaknesses

9.2 Valeo

9.2.1 Valeo Details

9.2.2 Valeo Major Business

9.2.3 Valeo Multi-Material Composite Battery Enclosure Product and Services

9.2.4 Valeo Multi-Material Composite Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Valeo Recent Developments/Updates

9.2.6 Valeo Competitive Strengths & Weaknesses

9.3 Kautex Textron

9.3.1 Kautex Textron Details

9.3.2 Kautex Textron Major Business

9.3.3 Kautex Textron Multi-Material Composite Battery Enclosure Product and Services

9.3.4 Kautex Textron Multi-Material Composite Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Kautex Textron Recent Developments/Updates

9.3.6 Kautex Textron Competitive Strengths & Weaknesses

9.4 LION Smart GmbH

9.4.1 LION Smart GmbH Details

9.4.2 LION Smart GmbH Major Business

9.4.3 LION Smart GmbH Multi-Material Composite Battery Enclosure Product and Services

9.4.4 LION Smart GmbH Multi-Material Composite Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 LION Smart GmbH Recent Developments/Updates

9.4.6 LION Smart GmbH Competitive Strengths & Weaknesses

9.5 Shandong Shuangyi Technology

9.5.1 Shandong Shuangyi Technology Details

9.5.2 Shandong Shuangyi Technology Major Business

9.5.3 Shandong Shuangyi Technology Multi-Material Composite Battery Enclosure Product and Services

9.5.4 Shandong Shuangyi Technology Multi-Material Composite Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Shandong Shuangyi Technology Recent Developments/Updates

9.5.6 Shandong Shuangyi Technology Competitive Strengths & Weaknesses

9.6 GRAD Group

9.6.1 GRAD Group Details

9.6.2 GRAD Group Major Business

9.6.3 GRAD Group Multi-Material Composite Battery Enclosure Product and Services

- 9.6.4 GRAD Group Multi-Material Composite Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 GRAD Group Recent Developments/Updates
- 9.6.6 GRAD Group Competitive Strengths & Weaknesses
- 9.7 Jiangsu Huaman Composite Material
 - 9.7.1 Jiangsu Huaman Composite Material Details
 - 9.7.2 Jiangsu Huaman Composite Material Major Business
 - 9.7.3 Jiangsu Huaman Composite Material Multi-Material Composite Battery Enclosure Product and Services
 - 9.7.4 Jiangsu Huaman Composite Material Multi-Material Composite Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Jiangsu Huaman Composite Material Recent Developments/Updates
 - 9.7.6 Jiangsu Huaman Composite Material Competitive Strengths & Weaknesses
- 9.8 Zhejiang Zhenshi New Material
 - 9.8.1 Zhejiang Zhenshi New Material Details
 - 9.8.2 Zhejiang Zhenshi New Material Major Business
 - 9.8.3 Zhejiang Zhenshi New Material Multi-Material Composite Battery Enclosure Product and Services
 - 9.8.4 Zhejiang Zhenshi New Material Multi-Material Composite Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Zhejiang Zhenshi New Material Recent Developments/Updates
 - 9.8.6 Zhejiang Zhenshi New Material Competitive Strengths & Weaknesses
- 9.9 AdvancedComposite(Suzhou)Technology
 - 9.9.1 AdvancedComposite(Suzhou)Technology Details
 - 9.9.2 AdvancedComposite(Suzhou)Technology Major Business
 - 9.9.3 AdvancedComposite(Suzhou)Technology Multi-Material Composite Battery Enclosure Product and Services
 - 9.9.4 AdvancedComposite(Suzhou)Technology Multi-Material Composite Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 AdvancedComposite(Suzhou)Technology Recent Developments/Updates
 - 9.9.6 AdvancedComposite(Suzhou)Technology Competitive Strengths & Weaknesses
- 9.10 ZheJiang Sance Mold Plastic Technology
 - 9.10.1 ZheJiang Sance Mold Plastic Technology Details
 - 9.10.2 ZheJiang Sance Mold Plastic Technology Major Business
 - 9.10.3 ZheJiang Sance Mold Plastic Technology Multi-Material Composite Battery Enclosure Product and Services
 - 9.10.4 ZheJiang Sance Mold Plastic Technology Multi-Material Composite Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 ZheJiang Sance Mold Plastic Technology Recent Developments/Updates

- 9.10.6 ZheJiang Sanshe Mold Plastic Technology Competitive Strengths & Weaknesses
- 9.11 Shanhu Auto Decoration
 - 9.11.1 Shanhu Auto Decoration Details
 - 9.11.2 Shanhu Auto Decoration Major Business
 - 9.11.3 Shanhu Auto Decoration Multi-Material Composite Battery Enclosure Product and Services
 - 9.11.4 Shanhu Auto Decoration Multi-Material Composite Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Shanhu Auto Decoration Recent Developments/Updates
 - 9.11.6 Shanhu Auto Decoration Competitive Strengths & Weaknesses
- 9.12 San He Ji Chuang
 - 9.12.1 San He Ji Chuang Details
 - 9.12.2 San He Ji Chuang Major Business
 - 9.12.3 San He Ji Chuang Multi-Material Composite Battery Enclosure Product and Services
 - 9.12.4 San He Ji Chuang Multi-Material Composite Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 San He Ji Chuang Recent Developments/Updates
 - 9.12.6 San He Ji Chuang Competitive Strengths & Weaknesses
- 9.13 Qinyang Yaxin Composite Materials
 - 9.13.1 Qinyang Yaxin Composite Materials Details
 - 9.13.2 Qinyang Yaxin Composite Materials Major Business
 - 9.13.3 Qinyang Yaxin Composite Materials Multi-Material Composite Battery Enclosure Product and Services
 - 9.13.4 Qinyang Yaxin Composite Materials Multi-Material Composite Battery Enclosure Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Qinyang Yaxin Composite Materials Recent Developments/Updates
 - 9.13.6 Qinyang Yaxin Composite Materials Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Multi-Material Composite Battery Enclosure Industry Chain
- 10.2 Multi-Material Composite Battery Enclosure Upstream Analysis
 - 10.2.1 Multi-Material Composite Battery Enclosure Core Raw Materials
 - 10.2.2 Main Manufacturers of Multi-Material Composite Battery Enclosure Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis

- 10.5 Multi-Material Composite Battery Enclosure Production Mode
- 10.6 Multi-Material Composite Battery Enclosure Procurement Model
- 10.7 Multi-Material Composite Battery Enclosure Industry Sales Model and Sales Channels
 - 10.7.1 Multi-Material Composite Battery Enclosure Sales Model
 - 10.7.2 Multi-Material Composite Battery Enclosure 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 Multi-Material Composite Battery Enclosure Production Value by Region (2021, 2025 and 2032) & (USD Million)

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

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

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

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

Table 6. World Multi-Material Composite Battery Enclosure Production by Region (2021-2026) & (K Units)

Table 7. World Multi-Material Composite Battery Enclosure Production by Region (2027-2032) & (K Units)

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

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

Table 10. World Multi-Material Composite Battery Enclosure Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Multi-Material Composite Battery Enclosure Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Multi-Material Composite Battery Enclosure Major Market Trends

Table 13. World Multi-Material Composite Battery Enclosure Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Multi-Material Composite Battery Enclosure Consumption by Region (2021-2026) & (K Units)

Table 15. World Multi-Material Composite Battery Enclosure Consumption Forecast by Region (2027-2032) & (K Units)

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

Table 17. Production Value Market Share of Key Multi-Material Composite Battery Enclosure Producers in 2025

Table 18. World Multi-Material Composite Battery Enclosure Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Multi-Material Composite Battery Enclosure Producers in 2025

Table 20. World Multi-Material Composite Battery Enclosure Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Multi-Material Composite Battery Enclosure Company Evaluation Quadrant

Table 22. World Multi-Material Composite Battery Enclosure Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Multi-Material Composite Battery Enclosure Production Site of Key Manufacturer

Table 24. Multi-Material Composite Battery Enclosure Market: Company Product Type Footprint

Table 25. Multi-Material Composite Battery Enclosure Market: Company Product Application Footprint

Table 26. Multi-Material Composite Battery Enclosure Competitive Factors

Table 27. Multi-Material Composite Battery Enclosure New Entrant and Capacity Expansion Plans

Table 28. Multi-Material Composite Battery Enclosure Mergers & Acquisitions Activity

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

Table 30. United States VS China Multi-Material Composite Battery Enclosure Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Multi-Material Composite Battery Enclosure Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Multi-Material Composite Battery Enclosure Manufacturers, Headquarters and Production Site (States, Country)

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

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

Table 35. United States Based Manufacturers Multi-Material Composite Battery Enclosure Production (2021-2026) & (K Units)

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

Table 37. China Based Multi-Material Composite Battery Enclosure Manufacturers, Headquarters and Production Site (Province, Country)

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

Table 39. China Based Manufacturers Multi-Material Composite Battery Enclosure

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Multi-Material Composite Battery Enclosure Production, (2021-2026) & (K Units)

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

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

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

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

Table 45. Rest of World Based Manufacturers Multi-Material Composite Battery Enclosure Production, (2021-2026) & (K Units)

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

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

Table 48. World Multi-Material Composite Battery Enclosure Production by Type (2021-2026) & (K Units)

Table 49. World Multi-Material Composite Battery Enclosure Production by Type (2027-2032) & (K Units)

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

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

Table 52. World Multi-Material Composite Battery Enclosure Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Multi-Material Composite Battery Enclosure Average Price by Type (2027-2032) & (US\$/Unit)

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

Table 55. World Multi-Material Composite Battery Enclosure Production by Processing (2021-2026) & (K Units)

Table 56. World Multi-Material Composite Battery Enclosure Production by Processing (2027-2032) & (K Units)

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

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

Table 59. World Multi-Material Composite Battery Enclosure Average Price by Processing (2021-2026) & (US\$/Unit)

Table 60. World Multi-Material Composite Battery Enclosure Average Price by Processing (2027-2032) & (US\$/Unit)

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

Table 62. World Multi-Material Composite Battery Enclosure Production by Reinforcing Materials (2021-2026) & (K Units)

Table 63. World Multi-Material Composite Battery Enclosure Production by Reinforcing Materials (2027-2032) & (K Units)

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

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

Table 66. World Multi-Material Composite Battery Enclosure Average Price by Reinforcing Materials (2021-2026) & (US\$/Unit)

Table 67. World Multi-Material Composite Battery Enclosure Average Price by Reinforcing Materials (2027-2032) & (US\$/Unit)

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

Table 69. World Multi-Material Composite Battery Enclosure Production by Application (2021-2026) & (K Units)

Table 70. World Multi-Material Composite Battery Enclosure Production by Application (2027-2032) & (K Units)

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

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

Table 73. World Multi-Material Composite Battery Enclosure Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Multi-Material Composite Battery Enclosure Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. SGL Carbon Basic Information, Manufacturing Base and Competitors

Table 76. SGL Carbon Major Business

Table 77. SGL Carbon Multi-Material Composite Battery Enclosure Product and Services

Table 78. SGL Carbon Multi-Material Composite Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 79. SGL Carbon Recent Developments/Updates
- Table 80. SGL Carbon Competitive Strengths & Weaknesses
- Table 81. Valeo Basic Information, Manufacturing Base and Competitors
- Table 82. Valeo Major Business
- Table 83. Valeo Multi-Material Composite Battery Enclosure Product and Services
- Table 84. Valeo Multi-Material Composite Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Valeo Recent Developments/Updates
- Table 86. Valeo Competitive Strengths & Weaknesses
- Table 87. Kautex Textron Basic Information, Manufacturing Base and Competitors
- Table 88. Kautex Textron Major Business
- Table 89. Kautex Textron Multi-Material Composite Battery Enclosure Product and Services
- Table 90. Kautex Textron Multi-Material Composite Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Kautex Textron Recent Developments/Updates
- Table 92. Kautex Textron Competitive Strengths & Weaknesses
- Table 93. LION Smart GmbH Basic Information, Manufacturing Base and Competitors
- Table 94. LION Smart GmbH Major Business
- Table 95. LION Smart GmbH Multi-Material Composite Battery Enclosure Product and Services
- Table 96. LION Smart GmbH Multi-Material Composite Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. LION Smart GmbH Recent Developments/Updates
- Table 98. LION Smart GmbH Competitive Strengths & Weaknesses
- Table 99. Shandong Shuangyi Technology Basic Information, Manufacturing Base and Competitors
- Table 100. Shandong Shuangyi Technology Major Business
- Table 101. Shandong Shuangyi Technology Multi-Material Composite Battery Enclosure Product and Services
- Table 102. Shandong Shuangyi Technology Multi-Material Composite Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Shandong Shuangyi Technology Recent Developments/Updates
- Table 104. Shandong Shuangyi Technology Competitive Strengths & Weaknesses
- Table 105. GRAD Group Basic Information, Manufacturing Base and Competitors

Table 106. GRAD Group Major Business

Table 107. GRAD Group Multi-Material Composite Battery Enclosure Product and Services

Table 108. GRAD Group Multi-Material Composite Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. GRAD Group Recent Developments/Updates

Table 110. GRAD Group Competitive Strengths & Weaknesses

Table 111. Jiangsu Huaman Composite Material Basic Information, Manufacturing Base and Competitors

Table 112. Jiangsu Huaman Composite Material Major Business

Table 113. Jiangsu Huaman Composite Material Multi-Material Composite Battery Enclosure Product and Services

Table 114. Jiangsu Huaman Composite Material Multi-Material Composite Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Jiangsu Huaman Composite Material Recent Developments/Updates

Table 116. Jiangsu Huaman Composite Material Competitive Strengths & Weaknesses

Table 117. Zhejiang Zhenshi New Material Basic Information, Manufacturing Base and Competitors

Table 118. Zhejiang Zhenshi New Material Major Business

Table 119. Zhejiang Zhenshi New Material Multi-Material Composite Battery Enclosure Product and Services

Table 120. Zhejiang Zhenshi New Material Multi-Material Composite Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Zhejiang Zhenshi New Material Recent Developments/Updates

Table 122. Zhejiang Zhenshi New Material Competitive Strengths & Weaknesses

Table 123. AdvancedComposite(Suzhou)Technology Basic Information, Manufacturing Base and Competitors

Table 124. AdvancedComposite(Suzhou)Technology Major Business

Table 125. AdvancedComposite(Suzhou)Technology Multi-Material Composite Battery Enclosure Product and Services

Table 126. AdvancedComposite(Suzhou)Technology Multi-Material Composite Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. AdvancedComposite(Suzhou)Technology Recent Developments/Updates

Table 128. AdvancedComposite(Suzhou)Technology Competitive Strengths & Weaknesses

- Table 129. ZheJiang Sanse Mold Plastic Technology Basic Information, Manufacturing Base and Competitors
- Table 130. ZheJiang Sanse Mold Plastic Technology Major Business
- Table 131. ZheJiang Sanse Mold Plastic Technology Multi-Material Composite Battery Enclosure Product and Services
- Table 132. ZheJiang Sanse Mold Plastic Technology Multi-Material Composite Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. ZheJiang Sanse Mold Plastic Technology Recent Developments/Updates
- Table 134. ZheJiang Sanse Mold Plastic Technology Competitive Strengths & Weaknesses
- Table 135. Shanhu Auto Decoration Basic Information, Manufacturing Base and Competitors
- Table 136. Shanhu Auto Decoration Major Business
- Table 137. Shanhu Auto Decoration Multi-Material Composite Battery Enclosure Product and Services
- Table 138. Shanhu Auto Decoration Multi-Material Composite Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Shanhu Auto Decoration Recent Developments/Updates
- Table 140. Shanhu Auto Decoration Competitive Strengths & Weaknesses
- Table 141. San He Ji Chuang Basic Information, Manufacturing Base and Competitors
- Table 142. San He Ji Chuang Major Business
- Table 143. San He Ji Chuang Multi-Material Composite Battery Enclosure Product and Services
- Table 144. San He Ji Chuang Multi-Material Composite Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. San He Ji Chuang Recent Developments/Updates
- Table 146. San He Ji Chuang Competitive Strengths & Weaknesses
- Table 147. Qinyang Yaxin Composite Materials Basic Information, Manufacturing Base and Competitors
- Table 148. Qinyang Yaxin Composite Materials Major Business
- Table 149. Qinyang Yaxin Composite Materials Multi-Material Composite Battery Enclosure Product and Services
- Table 150. Qinyang Yaxin Composite Materials Multi-Material Composite Battery Enclosure Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Qinyang Yaxin Composite Materials Recent Developments/Updates

Table 152. Qinyang Yaxin Composite Materials Competitive Strengths & Weaknesses

Table 153. Global Key Players of Multi-Material Composite Battery Enclosure Upstream (Raw Materials)

Table 154. Global Multi-Material Composite Battery Enclosure Typical Customers

Table 155. Multi-Material Composite Battery Enclosure Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Multi-Material Composite Battery Enclosure Picture

Figure 2. World Multi-Material Composite Battery Enclosure Production Value: 2021 & 2025 & 2032, (USD Million)

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

Figure 4. World Multi-Material Composite Battery Enclosure Production (2021-2032) & (K Units)

Figure 5. World Multi-Material Composite Battery Enclosure Average Price (2021-2032) & (US\$/Unit)

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

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

Figure 8. North America Multi-Material Composite Battery Enclosure Production (2021-2032) & (K Units)

Figure 9. Europe Multi-Material Composite Battery Enclosure Production (2021-2032) & (K Units)

Figure 10. China Multi-Material Composite Battery Enclosure Production (2021-2032) & (K Units)

Figure 11. Japan Multi-Material Composite Battery Enclosure Production (2021-2032) & (K Units)

Figure 12. South Korea Multi-Material Composite Battery Enclosure Production (2021-2032) & (K Units)

Figure 13. India Multi-Material Composite Battery Enclosure Production (2021-2032) & (K Units)

Figure 14. Mexico Multi-Material Composite Battery Enclosure Production (2021-2032) & (K Units)

Figure 15. Multi-Material Composite Battery Enclosure Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Multi-Material Composite Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 18. World Multi-Material Composite Battery Enclosure Consumption Market Share by Region (2021-2032)

Figure 19. United States Multi-Material Composite Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 20. China Multi-Material Composite Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 21. Europe Multi-Material Composite Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 22. Japan Multi-Material Composite Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 23. South Korea Multi-Material Composite Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Multi-Material Composite Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 25. India Multi-Material Composite Battery Enclosure Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Multi-Material Composite Battery Enclosure by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Multi-Material Composite Battery Enclosure Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Multi-Material Composite Battery Enclosure Markets in 2025

Figure 29. United States VS China: Multi-Material Composite Battery Enclosure Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Multi-Material Composite Battery Enclosure Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Multi-Material Composite Battery Enclosure Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Multi-Material Composite Battery Enclosure Production Market Share 2025

Figure 33. China Based Manufacturers Multi-Material Composite Battery Enclosure Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Multi-Material Composite Battery Enclosure Production Market Share 2025

Figure 35. World Multi-Material Composite Battery Enclosure Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Multi-Material Composite Battery Enclosure Production Value Market Share by Type in 2025

Figure 37. Thermoplastic Type

Figure 38. Thermosetting Type

Figure 39. World Multi-Material Composite Battery Enclosure Production Market Share by Type (2021-2032)

Figure 40. World Multi-Material Composite Battery Enclosure Production Value Market

Share by Type (2021-2032)

Figure 41. World Multi-Material Composite Battery Enclosure Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Multi-Material Composite Battery Enclosure Production Value by Processing, (USD Million), 2021 & 2025 & 2032

Figure 43. World Multi-Material Composite Battery Enclosure Production Value Market Share by Processing in 2025

Figure 44. SMC

Figure 45. BMC

Figure 46. Other

Figure 47. World Multi-Material Composite Battery Enclosure Production Market Share by Processing (2021-2032)

Figure 48. World Multi-Material Composite Battery Enclosure Production Value Market Share by Processing (2021-2032)

Figure 49. World Multi-Material Composite Battery Enclosure Average Price by Processing (2021-2032) & (US\$/Unit)

Figure 50. World Multi-Material Composite Battery Enclosure Production Value by Reinforcing Materials, (USD Million), 2021 & 2025 & 2032

Figure 51. World Multi-Material Composite Battery Enclosure Production Value Market Share by Reinforcing Materials in 2025

Figure 52. Glass Fiber

Figure 53. Carbon Fiber

Figure 54. Other

Figure 55. World Multi-Material Composite Battery Enclosure Production Market Share by Reinforcing Materials (2021-2032)

Figure 56. World Multi-Material Composite Battery Enclosure Production Value Market Share by Reinforcing Materials (2021-2032)

Figure 57. World Multi-Material Composite Battery Enclosure Average Price by Reinforcing Materials (2021-2032) & (US\$/Unit)

Figure 58. World Multi-Material Composite Battery Enclosure Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Multi-Material Composite Battery Enclosure Production Value Market Share by Application in 2025

Figure 60. Covers

Figure 61. Trays

Figure 62. World Multi-Material Composite Battery Enclosure Production Market Share by Application (2021-2032)

Figure 63. World Multi-Material Composite Battery Enclosure Production Value Market Share by Application (2021-2032)

Figure 64. World Multi-Material Composite Battery Enclosure Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Multi-Material Composite Battery Enclosure Industry Chain

Figure 66. Multi-Material Composite Battery Enclosure Procurement Model

Figure 67. Multi-Material Composite Battery Enclosure Sales Model

Figure 68. Multi-Material Composite Battery Enclosure Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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