

Global Battery Fireproof Thermal Insulation Coating Market Growth 2026-2032

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Abstracts

The global Battery Fireproof Thermal Insulation Coating market size is predicted to grow from US\$ 409 million in 2025 to US\$ 1388 million in 2032; it is expected to grow at a CAGR of 19.2% from 2026 to 2032.

Battery Fire Protection and Thermal Insulation Coatings are functional coatings applied to battery pack covers, trays, enclosures, module partitions, and related electrical components. Their primary purpose is to form thermal insulation, fire-resistant, and electrical insulation barriers during thermal runaway events, external flame exposure, or high-temperature particle impact. These products are typically based on intumescent, ceramifiable, silicone, epoxy, inorganic, or aerogel systems and can be applied through spray coating, curtain coating, dispensing, or powder coating processes, enabling thin-layer construction, lightweight design, and automated manufacturing. The overall gross margin is approximately 42%.

Market demand is primarily driven by increasingly stringent safety requirements in electric vehicles and energy storage systems. As power batteries evolve toward higher energy density, CTP (Cell-to-Pack) and CTC (Cell-to-Chassis) architectures, and larger battery pack designs, the impact of flames, hot particles, and high-temperature gases on pack covers, trays, and module partitions becomes more concentrated. Traditional mica sheets, thermal insulation pads, and insulation felts often struggle to cover complex three-dimensional surfaces, making fire protection and thermal insulation coatings an important supplementary solution within passive thermal runaway protection strategies. Technology development is shifting from simple flame-retardant performance toward thinner coatings, lower weight, automated application, and multifunctional integration. Intumescent epoxy coatings are well suited for large-area passive fire protection, while ceramifiable silicone coatings place greater emphasis on resistance to

flames, hot particle impact, and electrical insulation. Water-based inorganic and aerogel-based systems highlight advantages such as low smoke generation, low thermal conductivity, and lightweight construction. Automotive OEMs and battery manufacturers increasingly focus on coating thickness windows, adhesion performance, impact resistance, humidity and heat resistance, electrical insulation properties, and compatibility with production cycle times.

LP Information, Inc. (LPI) ' newest research report, the "Battery Fireproof Thermal Insulation Coating Industry Forecast" looks at past sales and reviews total world Battery Fireproof Thermal Insulation Coating sales in 2025, providing a comprehensive analysis by region and market sector of projected Battery Fireproof Thermal Insulation Coating sales for 2026 through 2032. With Battery Fireproof Thermal Insulation Coating sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Battery Fireproof Thermal Insulation Coating industry.

This Insight Report provides a comprehensive analysis of the global Battery Fireproof Thermal Insulation Coating landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Battery Fireproof Thermal Insulation Coating portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Battery Fireproof Thermal Insulation Coating market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Battery Fireproof Thermal Insulation Coating and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Battery Fireproof Thermal Insulation Coating.

This report presents a comprehensive overview, market shares, and growth opportunities of Battery Fireproof Thermal Insulation Coating market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Intumescent Fire Protection Coating

Ceramifying Fire Protection Coating

Inorganic Ablative Insulation Coating

Aerogel Insulation Coating

Flame-Retardant Dielectric Coating

Segmentation by Chemistry:

Epoxy-Based

Silicone-Based

Polyurethane-Based

Waterborne Inorganic

Polysiloxane Hybrid

Powder Coating

Other Resin Systems

Segmentation by Application Process:

Airless Spray Coating

Flat Stream Dispensing

Robotic Selective Dispensing

Powder Electrostatic Spraying

Brushing and Rolling

Segmentation by Battery Position:

Battery Pack Lid and Cover

Battery Tray and Housing

Module Partition and Side Plate

Cell Surface and Cell Gap

Energy Storage Cabinet

Electrical Components

Segmentation by Application:

Electric Passenger Vehicles

Electric Commercial Vehicles

Energy Storage Systems

Two-Wheelers and Light Mobility

Aerospace and Special Batteries

Consumer Electronics Batteries

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

PPG

Dow

Henkel

Sika

Evonik

Nippon Paint

Jotun

AkzoNobel

Huntsman

AIS

Key Questions Addressed in this Report

What is the 10-year outlook for the global Battery Fireproof Thermal Insulation Coating market?

What factors are driving Battery Fireproof Thermal Insulation Coating market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Battery Fireproof Thermal Insulation Coating market opportunities vary by end market size?

How does Battery Fireproof Thermal Insulation Coating break out by Type, by

Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Battery Fireproof Thermal Insulation Coating Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Battery Fireproof Thermal Insulation Coating by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Battery Fireproof Thermal Insulation Coating by Country/Region, 2021, 2025 & 2032

2.2 Battery Fireproof Thermal Insulation Coating Segment by Type

- 2.2.1 Intumescent Fire Protection Coating
- 2.2.2 Ceramifying Fire Protection Coating
- 2.2.3 Inorganic Ablative Insulation Coating
- 2.2.4 Aerogel Insulation Coating
- 2.2.5 Flame-Retardant Dielectric Coating
- 2.2.6 Battery Fireproof Thermal Insulation Coating Sales by Type
 - 2.2.6.1 Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Type (2021-2026)
 - 2.2.6.2 Global Battery Fireproof Thermal Insulation Coating Revenue and Market Share by Type (2021-2026)
 - 2.2.6.3 Global Battery Fireproof Thermal Insulation Coating Sale Price by Type (2021-2026)

2.3 Battery Fireproof Thermal Insulation Coating Segment by Chemistry

- 2.3.1 Epoxy-Based
- 2.3.2 Silicone-Based
- 2.3.3 Polyurethane-Based
- 2.3.4 Waterborne Inorganic

2.3.5 Polysiloxane Hybrid

2.3.6 Powder Coating

2.3.7 Other Resin Systems

2.3.8 Battery Fireproof Thermal Insulation Coating Sales by Chemistry

2.3.8.1 Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Chemistry (2021-2026)

2.3.8.2 Global Battery Fireproof Thermal Insulation Coating Revenue and Market Share by Chemistry (2021-2026)

2.3.8.3 Global Battery Fireproof Thermal Insulation Coating Sale Price by Chemistry (2021-2026)

2.4 Battery Fireproof Thermal Insulation Coating Segment by Application Process

2.4.1 Airless Spray Coating

2.4.2 Flat Stream Dispensing

2.4.3 Robotic Selective Dispensing

2.4.4 Powder Electrostatic Spraying

2.4.5 Brushing and Rolling

2.4.6 Battery Fireproof Thermal Insulation Coating Sales by Application Process

2.4.6.1 Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Application Process (2021-2026)

2.4.6.2 Global Battery Fireproof Thermal Insulation Coating Revenue and Market Share by Application Process (2021-2026)

2.4.6.3 Global Battery Fireproof Thermal Insulation Coating Sale Price by Application Process (2021-2026)

2.5 Battery Fireproof Thermal Insulation Coating Segment by Battery Position

2.5.1 Battery Pack Lid and Cover

2.5.2 Battery Tray and Housing

2.5.3 Module Partition and Side Plate

2.5.4 Cell Surface and Cell Gap

2.5.5 Energy Storage Cabinet

2.5.6 Electrical Components

2.5.7 Battery Fireproof Thermal Insulation Coating Sales by Battery Position

2.5.7.1 Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Battery Position (2021-2026)

2.5.7.2 Global Battery Fireproof Thermal Insulation Coating Revenue and Market Share by Battery Position (2021-2026)

2.5.7.3 Global Battery Fireproof Thermal Insulation Coating Sale Price by Battery Position (2021-2026)

2.6 Battery Fireproof Thermal Insulation Coating Segment by Application

2.6.1 Electric Passenger Vehicles

2.6.2 Electric Commercial Vehicles

2.6.3 Energy Storage Systems

2.6.4 Two-Wheelers and Light Mobility

2.6.5 Aerospace and Special Batteries

2.6.6 Consumer Electronics Batteries

2.6.7 Battery Fireproof Thermal Insulation Coating Sales by Application

2.6.7.1 Global Battery Fireproof Thermal Insulation Coating Sale Market Share by Application (2021-2026)

2.6.7.2 Global Battery Fireproof Thermal Insulation Coating Revenue and Market Share by Application (2021-2026)

2.6.7.3 Global Battery Fireproof Thermal Insulation Coating Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Battery Fireproof Thermal Insulation Coating Breakdown Data by Company

3.1.1 Global Battery Fireproof Thermal Insulation Coating Annual Sales by Company (2021-2026)

3.1.2 Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Company (2021-2026)

3.2 Global Battery Fireproof Thermal Insulation Coating Annual Revenue by Company (2021-2026)

3.2.1 Global Battery Fireproof Thermal Insulation Coating Revenue by Company (2021-2026)

3.2.2 Global Battery Fireproof Thermal Insulation Coating Revenue Market Share by Company (2021-2026)

3.3 Global Battery Fireproof Thermal Insulation Coating Sale Price by Company

3.4 Key Manufacturers Battery Fireproof Thermal Insulation Coating Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Battery Fireproof Thermal Insulation Coating Product Location Distribution

3.4.2 Players Battery Fireproof Thermal Insulation Coating Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR BATTERY FIREPROOF THERMAL INSULATION

COATING BY GEOGRAPHIC REGION

4.1 World Historic Battery Fireproof Thermal Insulation Coating Market Size by Geographic Region (2021-2026)

4.1.1 Global Battery Fireproof Thermal Insulation Coating Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Battery Fireproof Thermal Insulation Coating Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Battery Fireproof Thermal Insulation Coating Market Size by Country/Region (2021-2026)

4.2.1 Global Battery Fireproof Thermal Insulation Coating Annual Sales by Country/Region (2021-2026)

4.2.2 Global Battery Fireproof Thermal Insulation Coating Annual Revenue by Country/Region (2021-2026)

4.3 Americas Battery Fireproof Thermal Insulation Coating Sales Growth

4.4 APAC Battery Fireproof Thermal Insulation Coating Sales Growth

4.5 Europe Battery Fireproof Thermal Insulation Coating Sales Growth

4.6 Middle East & Africa Battery Fireproof Thermal Insulation Coating Sales Growth

5 AMERICAS

5.1 Americas Battery Fireproof Thermal Insulation Coating Sales by Country

5.1.1 Americas Battery Fireproof Thermal Insulation Coating Sales by Country (2021-2026)

5.1.2 Americas Battery Fireproof Thermal Insulation Coating Revenue by Country (2021-2026)

5.2 Americas Battery Fireproof Thermal Insulation Coating Sales by Type (2021-2026)

5.3 Americas Battery Fireproof Thermal Insulation Coating Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Battery Fireproof Thermal Insulation Coating Sales by Region

6.1.1 APAC Battery Fireproof Thermal Insulation Coating Sales by Region (2021-2026)

6.1.2 APAC Battery Fireproof Thermal Insulation Coating Revenue by Region
(2021-2026)

6.2 APAC Battery Fireproof Thermal Insulation Coating Sales by Type (2021-2026)

6.3 APAC Battery Fireproof Thermal Insulation Coating Sales by Application
(2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Battery Fireproof Thermal Insulation Coating by Country

7.1.1 Europe Battery Fireproof Thermal Insulation Coating Sales by Country
(2021-2026)

7.1.2 Europe Battery Fireproof Thermal Insulation Coating Revenue by Country
(2021-2026)

7.2 Europe Battery Fireproof Thermal Insulation Coating Sales by Type (2021-2026)

7.3 Europe Battery Fireproof Thermal Insulation Coating Sales by Application
(2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Battery Fireproof Thermal Insulation Coating by Country

8.1.1 Middle East & Africa Battery Fireproof Thermal Insulation Coating Sales by
Country (2021-2026)

8.1.2 Middle East & Africa Battery Fireproof Thermal Insulation Coating Revenue by
Country (2021-2026)

8.2 Middle East & Africa Battery Fireproof Thermal Insulation Coating Sales by Type
(2021-2026)

8.3 Middle East & Africa Battery Fireproof Thermal Insulation Coating Sales by

Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Battery Fireproof Thermal Insulation Coating

10.3 Manufacturing Process Analysis of Battery Fireproof Thermal Insulation Coating

10.4 Industry Chain Structure of Battery Fireproof Thermal Insulation Coating

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Battery Fireproof Thermal Insulation Coating Distributors

11.3 Battery Fireproof Thermal Insulation Coating Customer

12 WORLD FORECAST REVIEW FOR BATTERY FIREPROOF THERMAL INSULATION COATING BY GEOGRAPHIC REGION

12.1 Global Battery Fireproof Thermal Insulation Coating Market Size Forecast by Region

12.1.1 Global Battery Fireproof Thermal Insulation Coating Forecast by Region (2027-2032)

12.1.2 Global Battery Fireproof Thermal Insulation Coating Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Battery Fireproof Thermal Insulation Coating Forecast by Type (2027-2032)
- 12.7 Global Battery Fireproof Thermal Insulation Coating Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 PPG

- 13.1.1 PPG Company Information
- 13.1.2 PPG Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications
- 13.1.3 PPG Battery Fireproof Thermal Insulation Coating Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 PPG Main Business Overview
- 13.1.5 PPG Latest Developments

13.2 Dow

- 13.2.1 Dow Company Information
- 13.2.2 Dow Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications
- 13.2.3 Dow Battery Fireproof Thermal Insulation Coating Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Dow Main Business Overview
- 13.2.5 Dow Latest Developments

13.3 Henkel

- 13.3.1 Henkel Company Information
- 13.3.2 Henkel Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications
- 13.3.3 Henkel Battery Fireproof Thermal Insulation Coating Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Henkel Main Business Overview
- 13.3.5 Henkel Latest Developments

13.4 Sika

- 13.4.1 Sika Company Information
- 13.4.2 Sika Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications
- 13.4.3 Sika Battery Fireproof Thermal Insulation Coating Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.4.4 Sika Main Business Overview
- 13.4.5 Sika Latest Developments
- 13.5 Evonik
 - 13.5.1 Evonik Company Information
 - 13.5.2 Evonik Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications
 - 13.5.3 Evonik Battery Fireproof Thermal Insulation Coating Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Evonik Main Business Overview
 - 13.5.5 Evonik Latest Developments
- 13.6 Nippon Paint
 - 13.6.1 Nippon Paint Company Information
 - 13.6.2 Nippon Paint Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications
 - 13.6.3 Nippon Paint Battery Fireproof Thermal Insulation Coating Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Nippon Paint Main Business Overview
 - 13.6.5 Nippon Paint Latest Developments
- 13.7 Jotun
 - 13.7.1 Jotun Company Information
 - 13.7.2 Jotun Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications
 - 13.7.3 Jotun Battery Fireproof Thermal Insulation Coating Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Jotun Main Business Overview
 - 13.7.5 Jotun Latest Developments
- 13.8 AkzoNobel
 - 13.8.1 AkzoNobel Company Information
 - 13.8.2 AkzoNobel Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications
 - 13.8.3 AkzoNobel Battery Fireproof Thermal Insulation Coating Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 AkzoNobel Main Business Overview
 - 13.8.5 AkzoNobel Latest Developments
- 13.9 Huntsman
 - 13.9.1 Huntsman Company Information
 - 13.9.2 Huntsman Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications
 - 13.9.3 Huntsman Battery Fireproof Thermal Insulation Coating Sales, Revenue, Price

and Gross Margin (2021-2026)

13.9.4 Huntsman Main Business Overview

13.9.5 Huntsman Latest Developments

13.10 AIS

13.10.1 AIS Company Information

13.10.2 AIS Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications

13.10.3 AIS Battery Fireproof Thermal Insulation Coating Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 AIS Main Business Overview

13.10.5 AIS Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Battery Fireproof Thermal Insulation Coating Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Battery Fireproof Thermal Insulation Coating Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Intumescent Fire Protection Coating

Table 4. Major Players of Ceramifying Fire Protection Coating

Table 5. Major Players of Inorganic Ablative Insulation Coating

Table 6. Major Players of Aerogel Insulation Coating

Table 7. Major Players of Flame-Retardant Dielectric Coating

Table 8. Global Battery Fireproof Thermal Insulation Coating Sales by Type (2021-2026) & (kg)

Table 9. Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Type (2021-2026)

Table 10. Global Battery Fireproof Thermal Insulation Coating Revenue by Type (2021-2026) & (\$ million)

Table 11. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share by Type (2021-2026)

Table 12. Global Battery Fireproof Thermal Insulation Coating Sale Price by Type (2021-2026) & (US\$/kg)

Table 13. Major Players of Epoxy-Based

Table 14. Major Players of Silicone-Based

Table 15. Major Players of Polyurethane-Based

Table 16. Major Players of Waterborne Inorganic

Table 17. Major Players of Polysiloxane Hybrid

Table 18. Major Players of Powder Coating

Table 19. Major Players of Other Resin Systems

Table 20. Global Battery Fireproof Thermal Insulation Coating Sales by Chemistry (2021-2026) & (kg)

Table 21. Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Chemistry (2021-2026)

Table 22. Global Battery Fireproof Thermal Insulation Coating Revenue by Chemistry (2021-2026) & (\$ million)

Table 23. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share by Chemistry (2021-2026)

Table 24. Global Battery Fireproof Thermal Insulation Coating Sale Price by Chemistry

(2021-2026) & (US\$/kg)

Table 25. Major Players of Airless Spray Coating

Table 26. Major Players of Flat Stream Dispensing

Table 27. Major Players of Robotic Selective Dispensing

Table 28. Major Players of Powder Electrostatic Spraying

Table 29. Major Players of Brushing and Rolling

Table 30. Global Battery Fireproof Thermal Insulation Coating Sales by Application Process (2021-2026) & (kg)

Table 31. Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Application Process (2021-2026)

Table 32. Global Battery Fireproof Thermal Insulation Coating Revenue by Application Process (2021-2026) & (\$ million)

Table 33. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share by Application Process (2021-2026)

Table 34. Global Battery Fireproof Thermal Insulation Coating Sale Price by Application Process (2021-2026) & (US\$/kg)

Table 35. Major Players of Battery Pack Lid and Cover

Table 36. Major Players of Battery Tray and Housing

Table 37. Major Players of Module Partition and Side Plate

Table 38. Major Players of Cell Surface and Cell Gap

Table 39. Major Players of Energy Storage Cabinet

Table 40. Major Players of Electrical Components

Table 41. Global Battery Fireproof Thermal Insulation Coating Sales by Battery Position (2021-2026) & (kg)

Table 42. Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Battery Position (2021-2026)

Table 43. Global Battery Fireproof Thermal Insulation Coating Revenue by Battery Position (2021-2026) & (\$ million)

Table 44. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share by Battery Position (2021-2026)

Table 45. Global Battery Fireproof Thermal Insulation Coating Sale Price by Battery Position (2021-2026) & (US\$/kg)

Table 46. Global Battery Fireproof Thermal Insulation Coating Sale by Application (2021-2026) & (kg)

Table 47. Global Battery Fireproof Thermal Insulation Coating Sale Market Share by Application (2021-2026)

Table 48. Global Battery Fireproof Thermal Insulation Coating Revenue by Application (2021-2026) & (\$ million)

Table 49. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share

by Application (2021-2026)

Table 50. Global Battery Fireproof Thermal Insulation Coating Sale Price by Application (2021-2026) & (US\$/kg)

Table 51. Global Battery Fireproof Thermal Insulation Coating Sales by Company (2021-2026) & (kg)

Table 52. Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Company (2021-2026)

Table 53. Global Battery Fireproof Thermal Insulation Coating Revenue by Company (2021-2026) & (\$ millions)

Table 54. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share by Company (2021-2026)

Table 55. Global Battery Fireproof Thermal Insulation Coating Sale Price by Company (2021-2026) & (US\$/kg)

Table 56. Key Manufacturers Battery Fireproof Thermal Insulation Coating Producing Area Distribution and Sales Area

Table 57. Players Battery Fireproof Thermal Insulation Coating Products Offered

Table 58. Battery Fireproof Thermal Insulation Coating Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 59. New Products and Potential Entrants

Table 60. Market M&A Activity & Strategy

Table 61. Global Battery Fireproof Thermal Insulation Coating Sales by Geographic Region (2021-2026) & (kg)

Table 62. Global Battery Fireproof Thermal Insulation Coating Sales Market Share Geographic Region (2021-2026)

Table 63. Global Battery Fireproof Thermal Insulation Coating Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 64. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share by Geographic Region (2021-2026)

Table 65. Global Battery Fireproof Thermal Insulation Coating Sales by Country/Region (2021-2026) & (kg)

Table 66. Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Country/Region (2021-2026)

Table 67. Global Battery Fireproof Thermal Insulation Coating Revenue by Country/Region (2021-2026) & (\$ millions)

Table 68. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share by Country/Region (2021-2026)

Table 69. Americas Battery Fireproof Thermal Insulation Coating Sales by Country (2021-2026) & (kg)

Table 70. Americas Battery Fireproof Thermal Insulation Coating Sales Market Share by

Country (2021-2026)

Table 71. Americas Battery Fireproof Thermal Insulation Coating Revenue by Country (2021-2026) & (\$ millions)

Table 72. Americas Battery Fireproof Thermal Insulation Coating Sales by Type (2021-2026) & (kg)

Table 73. Americas Battery Fireproof Thermal Insulation Coating Sales by Application (2021-2026) & (kg)

Table 74. APAC Battery Fireproof Thermal Insulation Coating Sales by Region (2021-2026) & (kg)

Table 75. APAC Battery Fireproof Thermal Insulation Coating Sales Market Share by Region (2021-2026)

Table 76. APAC Battery Fireproof Thermal Insulation Coating Revenue by Region (2021-2026) & (\$ millions)

Table 77. APAC Battery Fireproof Thermal Insulation Coating Sales by Type (2021-2026) & (kg)

Table 78. APAC Battery Fireproof Thermal Insulation Coating Sales by Application (2021-2026) & (kg)

Table 79. Europe Battery Fireproof Thermal Insulation Coating Sales by Country (2021-2026) & (kg)

Table 80. Europe Battery Fireproof Thermal Insulation Coating Revenue by Country (2021-2026) & (\$ millions)

Table 81. Europe Battery Fireproof Thermal Insulation Coating Sales by Type (2021-2026) & (kg)

Table 82. Europe Battery Fireproof Thermal Insulation Coating Sales by Application (2021-2026) & (kg)

Table 83. Middle East & Africa Battery Fireproof Thermal Insulation Coating Sales by Country (2021-2026) & (kg)

Table 84. Middle East & Africa Battery Fireproof Thermal Insulation Coating Revenue Market Share by Country (2021-2026)

Table 85. Middle East & Africa Battery Fireproof Thermal Insulation Coating Sales by Type (2021-2026) & (kg)

Table 86. Middle East & Africa Battery Fireproof Thermal Insulation Coating Sales by Application (2021-2026) & (kg)

Table 87. Key Market Drivers & Growth Opportunities of Battery Fireproof Thermal Insulation Coating

Table 88. Key Market Challenges & Risks of Battery Fireproof Thermal Insulation Coating

Table 89. Key Industry Trends of Battery Fireproof Thermal Insulation Coating

Table 90. Battery Fireproof Thermal Insulation Coating Raw Material

Table 91. Key Suppliers of Raw Materials
Table 92. Battery Fireproof Thermal Insulation Coating Distributors List
Table 93. Battery Fireproof Thermal Insulation Coating Customer List
Table 94. Global Battery Fireproof Thermal Insulation Coating Sales Forecast by Region (2027-2032) & (kg)
Table 95. Global Battery Fireproof Thermal Insulation Coating Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 96. Americas Battery Fireproof Thermal Insulation Coating Sales Forecast by Country (2027-2032) & (kg)
Table 97. Americas Battery Fireproof Thermal Insulation Coating Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 98. APAC Battery Fireproof Thermal Insulation Coating Sales Forecast by Region (2027-2032) & (kg)
Table 99. APAC Battery Fireproof Thermal Insulation Coating Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 100. Europe Battery Fireproof Thermal Insulation Coating Sales Forecast by Country (2027-2032) & (kg)
Table 101. Europe Battery Fireproof Thermal Insulation Coating Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 102. Middle East & Africa Battery Fireproof Thermal Insulation Coating Sales Forecast by Country (2027-2032) & (kg)
Table 103. Middle East & Africa Battery Fireproof Thermal Insulation Coating Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 104. Global Battery Fireproof Thermal Insulation Coating Sales Forecast by Type (2027-2032) & (kg)
Table 105. Global Battery Fireproof Thermal Insulation Coating Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 106. Global Battery Fireproof Thermal Insulation Coating Sales Forecast by Application (2027-2032) & (kg)
Table 107. Global Battery Fireproof Thermal Insulation Coating Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 108. PPG Basic Information, Battery Fireproof Thermal Insulation Coating Manufacturing Base, Sales Area and Its Competitors
Table 109. PPG Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications
Table 110. PPG Battery Fireproof Thermal Insulation Coating Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 111. PPG Main Business
Table 112. PPG Latest Developments

Table 113. Dow Basic Information, Battery Fireproof Thermal Insulation Coating Manufacturing Base, Sales Area and Its Competitors

Table 114. Dow Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications

Table 115. Dow Battery Fireproof Thermal Insulation Coating Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 116. Dow Main Business

Table 117. Dow Latest Developments

Table 118. Henkel Basic Information, Battery Fireproof Thermal Insulation Coating Manufacturing Base, Sales Area and Its Competitors

Table 119. Henkel Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications

Table 120. Henkel Battery Fireproof Thermal Insulation Coating Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 121. Henkel Main Business

Table 122. Henkel Latest Developments

Table 123. Sika Basic Information, Battery Fireproof Thermal Insulation Coating Manufacturing Base, Sales Area and Its Competitors

Table 124. Sika Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications

Table 125. Sika Battery Fireproof Thermal Insulation Coating Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 126. Sika Main Business

Table 127. Sika Latest Developments

Table 128. Evonik Basic Information, Battery Fireproof Thermal Insulation Coating Manufacturing Base, Sales Area and Its Competitors

Table 129. Evonik Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications

Table 130. Evonik Battery Fireproof Thermal Insulation Coating Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 131. Evonik Main Business

Table 132. Evonik Latest Developments

Table 133. Nippon Paint Basic Information, Battery Fireproof Thermal Insulation Coating Manufacturing Base, Sales Area and Its Competitors

Table 134. Nippon Paint Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications

Table 135. Nippon Paint Battery Fireproof Thermal Insulation Coating Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 136. Nippon Paint Main Business

Table 137. Nippon Paint Latest Developments

Table 138. Jotun Basic Information, Battery Fireproof Thermal Insulation Coating Manufacturing Base, Sales Area and Its Competitors

Table 139. Jotun Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications

Table 140. Jotun Battery Fireproof Thermal Insulation Coating Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 141. Jotun Main Business

Table 142. Jotun Latest Developments

Table 143. AkzoNobel Basic Information, Battery Fireproof Thermal Insulation Coating Manufacturing Base, Sales Area and Its Competitors

Table 144. AkzoNobel Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications

Table 145. AkzoNobel Battery Fireproof Thermal Insulation Coating Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 146. AkzoNobel Main Business

Table 147. AkzoNobel Latest Developments

Table 148. Huntsman Basic Information, Battery Fireproof Thermal Insulation Coating Manufacturing Base, Sales Area and Its Competitors

Table 149. Huntsman Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications

Table 150. Huntsman Battery Fireproof Thermal Insulation Coating Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 151. Huntsman Main Business

Table 152. Huntsman Latest Developments

Table 153. AIS Basic Information, Battery Fireproof Thermal Insulation Coating Manufacturing Base, Sales Area and Its Competitors

Table 154. AIS Battery Fireproof Thermal Insulation Coating Product Portfolios and Specifications

Table 155. AIS Battery Fireproof Thermal Insulation Coating Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 156. AIS Main Business

Table 157. AIS Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Battery Fireproof Thermal Insulation Coating
- Figure 2. Battery Fireproof Thermal Insulation Coating Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Battery Fireproof Thermal Insulation Coating Sales Growth Rate 2021-2032 (kg)
- Figure 7. Global Battery Fireproof Thermal Insulation Coating Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Battery Fireproof Thermal Insulation Coating Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Battery Fireproof Thermal Insulation Coating Sales Market Share by Country/Region (2025)
- Figure 10. Battery Fireproof Thermal Insulation Coating Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Intumescent Fire Protection Coating
- Figure 12. Product Picture of Ceramifying Fire Protection Coating
- Figure 13. Product Picture of Inorganic Ablative Insulation Coating
- Figure 14. Product Picture of Aerogel Insulation Coating
- Figure 15. Product Picture of Flame-Retardant Dielectric Coating
- Figure 16. Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Type in 2026
- Figure 17. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share by Type (2021-2026)
- Figure 18. Product Picture of Epoxy-Based
- Figure 19. Product Picture of Silicone-Based
- Figure 20. Product Picture of Polyurethane-Based
- Figure 21. Product Picture of Waterborne Inorganic
- Figure 22. Product Picture of Polysiloxane Hybrid
- Figure 23. Product Picture of Powder Coating
- Figure 24. Product Picture of Other Resin Systems
- Figure 25. Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Chemistry in 2026
- Figure 26. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share by Chemistry (2021-2026)

Figure 27. Product Picture of Airless Spray Coating

Figure 28. Product Picture of Flat Stream Dispensing

Figure 29. Product Picture of Robotic Selective Dispensing

Figure 30. Product Picture of Powder Electrostatic Spraying

Figure 31. Product Picture of Brushing and Rolling

Figure 32. Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Application Process in 2026

Figure 33. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share by Application Process (2021-2026)

Figure 34. Product Picture of Battery Pack Lid and Cover

Figure 35. Product Picture of Battery Tray and Housing

Figure 36. Product Picture of Module Partition and Side Plate

Figure 37. Product Picture of Cell Surface and Cell Gap

Figure 38. Product Picture of Energy Storage Cabinet

Figure 39. Product Picture of Electrical Components

Figure 40. Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Battery Position in 2026

Figure 41. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share by Battery Position (2021-2026)

Figure 42. Battery Fireproof Thermal Insulation Coating Consumed in Electric Passenger Vehicles

Figure 43. Global Battery Fireproof Thermal Insulation Coating Market: Electric Passenger Vehicles (2021-2026) & (kg)

Figure 44. Battery Fireproof Thermal Insulation Coating Consumed in Electric Commercial Vehicles

Figure 45. Global Battery Fireproof Thermal Insulation Coating Market: Electric Commercial Vehicles (2021-2026) & (kg)

Figure 46. Battery Fireproof Thermal Insulation Coating Consumed in Energy Storage Systems

Figure 47. Global Battery Fireproof Thermal Insulation Coating Market: Energy Storage Systems (2021-2026) & (kg)

Figure 48. Battery Fireproof Thermal Insulation Coating Consumed in Two-Wheelers and Light Mobility

Figure 49. Global Battery Fireproof Thermal Insulation Coating Market: Two-Wheelers and Light Mobility (2021-2026) & (kg)

Figure 50. Battery Fireproof Thermal Insulation Coating Consumed in Aerospace and Special Batteries

Figure 51. Global Battery Fireproof Thermal Insulation Coating Market: Aerospace and Special Batteries (2021-2026) & (kg)

Figure 52. Battery Fireproof Thermal Insulation Coating Consumed in Consumer Electronics Batteries

Figure 53. Global Battery Fireproof Thermal Insulation Coating Market: Consumer Electronics Batteries (2021-2026) & (kg)

Figure 54. Global Battery Fireproof Thermal Insulation Coating Sale Market Share by Application (2025)

Figure 55. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share by Application in 2025

Figure 56. Battery Fireproof Thermal Insulation Coating Sales by Company in 2025 (kg)

Figure 57. Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Company in 2025

Figure 58. Battery Fireproof Thermal Insulation Coating Revenue by Company in 2025 (\$ millions)

Figure 59. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share by Company in 2025

Figure 60. Global Battery Fireproof Thermal Insulation Coating Sales Market Share by Geographic Region (2021-2026)

Figure 61. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share by Geographic Region in 2025

Figure 62. Americas Battery Fireproof Thermal Insulation Coating Sales 2021-2026 (kg)

Figure 63. Americas Battery Fireproof Thermal Insulation Coating Revenue 2021-2026 (\$ millions)

Figure 64. APAC Battery Fireproof Thermal Insulation Coating Sales 2021-2026 (kg)

Figure 65. APAC Battery Fireproof Thermal Insulation Coating Revenue 2021-2026 (\$ millions)

Figure 66. Europe Battery Fireproof Thermal Insulation Coating Sales 2021-2026 (kg)

Figure 67. Europe Battery Fireproof Thermal Insulation Coating Revenue 2021-2026 (\$ millions)

Figure 68. Middle East & Africa Battery Fireproof Thermal Insulation Coating Sales 2021-2026 (kg)

Figure 69. Middle East & Africa Battery Fireproof Thermal Insulation Coating Revenue 2021-2026 (\$ millions)

Figure 70. Americas Battery Fireproof Thermal Insulation Coating Sales Market Share by Country in 2025

Figure 71. Americas Battery Fireproof Thermal Insulation Coating Revenue Market Share by Country (2021-2026)

Figure 72. Americas Battery Fireproof Thermal Insulation Coating Sales Market Share by Type (2021-2026)

Figure 73. Americas Battery Fireproof Thermal Insulation Coating Sales Market Share

by Application (2021-2026)

Figure 74. United States Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 75. Canada Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 76. Mexico Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 77. Brazil Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 78. APAC Battery Fireproof Thermal Insulation Coating Sales Market Share by Region in 2025

Figure 79. APAC Battery Fireproof Thermal Insulation Coating Revenue Market Share by Region (2021-2026)

Figure 80. APAC Battery Fireproof Thermal Insulation Coating Sales Market Share by Type (2021-2026)

Figure 81. APAC Battery Fireproof Thermal Insulation Coating Sales Market Share by Application (2021-2026)

Figure 82. China Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 83. Japan Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 84. South Korea Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 85. Southeast Asia Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 86. India Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 87. Australia Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 88. China Taiwan Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 89. Europe Battery Fireproof Thermal Insulation Coating Sales Market Share by Country in 2025

Figure 90. Europe Battery Fireproof Thermal Insulation Coating Revenue Market Share by Country (2021-2026)

Figure 91. Europe Battery Fireproof Thermal Insulation Coating Sales Market Share by Type (2021-2026)

Figure 92. Europe Battery Fireproof Thermal Insulation Coating Sales Market Share by Application (2021-2026)

Figure 93. Germany Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 94. France Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 95. UK Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 96. Italy Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 97. Russia Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 98. Middle East & Africa Battery Fireproof Thermal Insulation Coating Sales Market Share by Country (2021-2026)

Figure 99. Middle East & Africa Battery Fireproof Thermal Insulation Coating Sales Market Share by Type (2021-2026)

Figure 100. Middle East & Africa Battery Fireproof Thermal Insulation Coating Sales Market Share by Application (2021-2026)

Figure 101. Egypt Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 102. South Africa Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 103. Israel Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 104. Turkey Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 105. GCC Countries Battery Fireproof Thermal Insulation Coating Revenue Growth 2021-2026 (\$ millions)

Figure 106. Manufacturing Cost Structure Analysis of Battery Fireproof Thermal Insulation Coating in 2026

Figure 107. Manufacturing Process Analysis of Battery Fireproof Thermal Insulation Coating

Figure 108. Industry Chain Structure of Battery Fireproof Thermal Insulation Coating

Figure 109. Channels of Distribution

Figure 110. Global Battery Fireproof Thermal Insulation Coating Sales Market Forecast by Region (2027-2032)

Figure 111. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share Forecast by Region (2027-2032)

Figure 112. Global Battery Fireproof Thermal Insulation Coating Sales Market Share Forecast by Type (2027-2032)

Figure 113. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share

Forecast by Type (2027-2032)

Figure 114. Global Battery Fireproof Thermal Insulation Coating Sales Market Share

Forecast by Application (2027-2032)

Figure 115. Global Battery Fireproof Thermal Insulation Coating Revenue Market Share

Forecast by Application (2027-2032)

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