

Global Thermal Runaway Insulation Blanket Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Thermal Runaway Insulation Blanket market size was valued at US\$ 1532 million in 2025 and is forecast to a readjusted size of US\$ 4147 million by 2032 with a CAGR of 14.9% during review period.

Thermal runaway insulation blanket is a high-performance thermal barrier material used in lithium-ion battery systems to delay or prevent the propagation of heat during a thermal runaway event. It typically features high temperature resistance, low thermal conductivity, flame retardancy, electrical insulation, and structural stability. It is widely used in EV battery packs, energy storage systems (ESS), and aerospace battery safety protection. In 2025, global Thermal runaway insulation blanket production reached approximately 83.01 Kilotons. The upstream of the thermal runaway insulation blanket industry consists of high-performance raw materials, including ceramic fibers, aerogel precursors, aramid fibers, glass fibers, flame-retardant resins, and inorganic fillers.

Thermal runaway insulation blankets are critical functional safety materials in lithium-ion battery systems, primarily used in EV battery packs and energy storage systems (ESS) to isolate and block heat propagation during thermal runaway events, thereby reducing the risk of cascading failures and improving overall system safety. With the rapid growth of the electric vehicle and energy storage industries, battery energy density continues to increase, leading to higher thermal instability risks. At the same time, increasingly stringent global safety regulations, such as UN38.3, UL9540A, and China's GB standards, are driving the adoption of advanced thermal propagation protection materials. As a result, thermal runaway insulation blankets have evolved from auxiliary fire-resistant components into standard safety structural elements in battery pack

design.

This report is a detailed and comprehensive analysis for global Thermal Runaway Insulation Blanket market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Thermal Runaway Insulation Blanket market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

Global Thermal Runaway Insulation Blanket market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

Global Thermal Runaway Insulation Blanket market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

Global Thermal Runaway Insulation Blanket market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Thermal Runaway Insulation Blanket

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Thermal Runaway Insulation Blanket

market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Morgan Advanced Materials, 3M, Saint-Gobain, Shenzhen Xinlun, Sinoma Science & Technology, Aspen Aerogels, Gore, Enersens (Skogar), IBIH Advanced Materials, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Thermal Runaway Insulation Blanket market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Passive Thermal Barrier Materials

- Phase-change / Heat Absorption Materials

- ?Multilayer Composite Barrier System

- Hybrid Safety Architecture

Market segment by Material Type

- Aerogel Composite Blanket

- Ceramic Fiber Blanket

- Mica-based Insulation Blanket

- Others

Market segment by Form Factor

Flexible Felt

Sheet / Panel

Roll Goods

Custom-cut Components

Market segment by Functional Layer

Cell-level Thermal Barrier

Module-level Insulation Layer

Pack-level Propagation Barrier

Localized Hotspot Protection Layer

Market segment by Application

EV Battery Pack

Energy Storage System, ESS

Consumer Electronics Battery

Aerospace Battery Systems

Major players covered

Morgan Advanced Materials

3M

Saint-Gobain

Shenzhen Xinlun

Sinoma Science & Technology

Aspen Aerogels

Gore

Enersens (Skogar)

IBIH Advanced Materials

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Thermal Runaway Insulation Blanket product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermal Runaway Insulation Blanket, with price, sales quantity, revenue, and global market share of Thermal Runaway Insulation Blanket from 2021 to 2026.

Chapter 3, the Thermal Runaway Insulation Blanket competitive situation, sales

quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermal Runaway Insulation Blanket breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Thermal Runaway Insulation Blanket market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thermal Runaway Insulation Blanket.

Chapter 14 and 15, to describe Thermal Runaway Insulation Blanket sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Thermal Runaway Insulation Blanket Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Passive Thermal Barrier Materials

1.3.3 Phase-change / Heat Absorption Materials

1.3.4 ?Multilayer Composite Barrier System

1.3.5 Hybrid Safety Architecture

1.4 Market Analysis by Material Type

1.4.1 Overview: Global Thermal Runaway Insulation Blanket Consumption Value by Material Type: 2021 Versus 2025 Versus 2032

1.4.2 Aerogel Composite Blanket

1.4.3 Ceramic Fiber Blanket

1.4.4 Mica-based Insulation Blanket

1.4.5 Others

1.5 Market Analysis by Form Factor

1.5.1 Overview: Global Thermal Runaway Insulation Blanket Consumption Value by Form Factor: 2021 Versus 2025 Versus 2032

1.5.2 Flexible Felt

1.5.3 Sheet / Panel

1.5.4 Roll Goods

1.5.5 Custom-cut Components

1.6 Market Analysis by Functional Layer

1.6.1 Overview: Global Thermal Runaway Insulation Blanket Consumption Value by Functional Layer: 2021 Versus 2025 Versus 2032

1.6.2 Cell-level Thermal Barrier

1.6.3 Module-level Insulation Layer

1.6.4 Pack-level Propagation Barrier

1.6.5 Localized Hotspot Protection Layer

1.7 Market Analysis by Application

1.7.1 Overview: Global Thermal Runaway Insulation Blanket Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 EV Battery Pack

1.7.3 Energy Storage System, ESS

- 1.7.4 Consumer Electronics Battery
- 1.7.5 Aerospace Battery Systems
- 1.8 Global Thermal Runaway Insulation Blanket Market Size & Forecast
 - 1.8.1 Global Thermal Runaway Insulation Blanket Consumption Value (2021 & 2025 & 2032)
 - 1.8.2 Global Thermal Runaway Insulation Blanket Sales Quantity (2021-2032)
 - 1.8.3 Global Thermal Runaway Insulation Blanket Average Price (2021-2032)

2 MANUFACTURERS PROFILES

- 2.1 Morgan Advanced Materials
 - 2.1.1 Morgan Advanced Materials Details
 - 2.1.2 Morgan Advanced Materials Major Business
 - 2.1.3 Morgan Advanced Materials Thermal Runaway Insulation Blanket Product and Services
 - 2.1.4 Morgan Advanced Materials Thermal Runaway Insulation Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.1.5 Morgan Advanced Materials Recent Developments/Updates
- 2.2 3M
 - 2.2.1 3M Details
 - 2.2.2 3M Major Business
 - 2.2.3 3M Thermal Runaway Insulation Blanket Product and Services
 - 2.2.4 3M Thermal Runaway Insulation Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 3M Recent Developments/Updates
- 2.3 Saint-Gobain
 - 2.3.1 Saint-Gobain Details
 - 2.3.2 Saint-Gobain Major Business
 - 2.3.3 Saint-Gobain Thermal Runaway Insulation Blanket Product and Services
 - 2.3.4 Saint-Gobain Thermal Runaway Insulation Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Saint-Gobain Recent Developments/Updates
- 2.4 Shenzhen Xinlun
 - 2.4.1 Shenzhen Xinlun Details
 - 2.4.2 Shenzhen Xinlun Major Business
 - 2.4.3 Shenzhen Xinlun Thermal Runaway Insulation Blanket Product and Services
 - 2.4.4 Shenzhen Xinlun Thermal Runaway Insulation Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Shenzhen Xinlun Recent Developments/Updates

2.5 Sinoma Science & Technology

2.5.1 Sinoma Science & Technology Details

2.5.2 Sinoma Science & Technology Major Business

2.5.3 Sinoma Science & Technology Thermal Runaway Insulation Blanket Product and Services

2.5.4 Sinoma Science & Technology Thermal Runaway Insulation Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Sinoma Science & Technology Recent Developments/Updates

2.6 Aspen Aerogels

2.6.1 Aspen Aerogels Details

2.6.2 Aspen Aerogels Major Business

2.6.3 Aspen Aerogels Thermal Runaway Insulation Blanket Product and Services

2.6.4 Aspen Aerogels Thermal Runaway Insulation Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Aspen Aerogels Recent Developments/Updates

2.7 Gore

2.7.1 Gore Details

2.7.2 Gore Major Business

2.7.3 Gore Thermal Runaway Insulation Blanket Product and Services

2.7.4 Gore Thermal Runaway Insulation Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Gore Recent Developments/Updates

2.8 Enersens (Skogar)

2.8.1 Enersens (Skogar) Details

2.8.2 Enersens (Skogar) Major Business

2.8.3 Enersens (Skogar) Thermal Runaway Insulation Blanket Product and Services

2.8.4 Enersens (Skogar) Thermal Runaway Insulation Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Enersens (Skogar) Recent Developments/Updates

2.9 IBIH Advanced Materials

2.9.1 IBIH Advanced Materials Details

2.9.2 IBIH Advanced Materials Major Business

2.9.3 IBIH Advanced Materials Thermal Runaway Insulation Blanket Product and Services

2.9.4 IBIH Advanced Materials Thermal Runaway Insulation Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 IBIH Advanced Materials Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: THERMAL RUNAWAY INSULATION BLANKET

BY MANUFACTURER

3.1 Global Thermal Runaway Insulation Blanket Sales Quantity by Manufacturer (2021-2026)

3.2 Global Thermal Runaway Insulation Blanket Revenue by Manufacturer (2021-2026)

3.3 Global Thermal Runaway Insulation Blanket Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Thermal Runaway Insulation Blanket by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Thermal Runaway Insulation Blanket Manufacturer Market Share in 2025

3.4.3 Top 6 Thermal Runaway Insulation Blanket Manufacturer Market Share in 2025

3.5 Thermal Runaway Insulation Blanket Market: Overall Company Footprint Analysis

3.5.1 Thermal Runaway Insulation Blanket Market: Region Footprint

3.5.2 Thermal Runaway Insulation Blanket Market: Company Product Type Footprint

3.5.3 Thermal Runaway Insulation Blanket Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Thermal Runaway Insulation Blanket Market Size by Region

4.1.1 Global Thermal Runaway Insulation Blanket Sales Quantity by Region (2021-2032)

4.1.2 Global Thermal Runaway Insulation Blanket Consumption Value by Region (2021-2032)

4.1.3 Global Thermal Runaway Insulation Blanket Average Price by Region (2021-2032)

4.2 North America Thermal Runaway Insulation Blanket Consumption Value (2021-2032)

4.3 Europe Thermal Runaway Insulation Blanket Consumption Value (2021-2032)

4.4 Asia-Pacific Thermal Runaway Insulation Blanket Consumption Value (2021-2032)

4.5 South America Thermal Runaway Insulation Blanket Consumption Value (2021-2032)

4.6 Middle East & Africa Thermal Runaway Insulation Blanket Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Thermal Runaway Insulation Blanket Sales Quantity by Type (2021-2032)
- 5.2 Global Thermal Runaway Insulation Blanket Consumption Value by Type (2021-2032)
- 5.3 Global Thermal Runaway Insulation Blanket Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Thermal Runaway Insulation Blanket Sales Quantity by Application (2021-2032)
- 6.2 Global Thermal Runaway Insulation Blanket Consumption Value by Application (2021-2032)
- 6.3 Global Thermal Runaway Insulation Blanket Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Thermal Runaway Insulation Blanket Sales Quantity by Type (2021-2032)
- 7.2 North America Thermal Runaway Insulation Blanket Sales Quantity by Application (2021-2032)
- 7.3 North America Thermal Runaway Insulation Blanket Market Size by Country
 - 7.3.1 North America Thermal Runaway Insulation Blanket Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Thermal Runaway Insulation Blanket Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Thermal Runaway Insulation Blanket Sales Quantity by Type (2021-2032)
- 8.2 Europe Thermal Runaway Insulation Blanket Sales Quantity by Application (2021-2032)
- 8.3 Europe Thermal Runaway Insulation Blanket Market Size by Country
 - 8.3.1 Europe Thermal Runaway Insulation Blanket Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Thermal Runaway Insulation Blanket Consumption Value by Country

(2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Thermal Runaway Insulation Blanket Sales Quantity by Type
(2021-2032)

9.2 Asia-Pacific Thermal Runaway Insulation Blanket Sales Quantity by Application
(2021-2032)

9.3 Asia-Pacific Thermal Runaway Insulation Blanket Market Size by Region

9.3.1 Asia-Pacific Thermal Runaway Insulation Blanket Sales Quantity by Region
(2021-2032)

9.3.2 Asia-Pacific Thermal Runaway Insulation Blanket Consumption Value by Region
(2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Thermal Runaway Insulation Blanket Sales Quantity by Type
(2021-2032)

10.2 South America Thermal Runaway Insulation Blanket Sales Quantity by Application
(2021-2032)

10.3 South America Thermal Runaway Insulation Blanket Market Size by Country

10.3.1 South America Thermal Runaway Insulation Blanket Sales Quantity by Country
(2021-2032)

10.3.2 South America Thermal Runaway Insulation Blanket Consumption Value by
Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Thermal Runaway Insulation Blanket Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Thermal Runaway Insulation Blanket Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Thermal Runaway Insulation Blanket Market Size by Country

11.3.1 Middle East & Africa Thermal Runaway Insulation Blanket Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Thermal Runaway Insulation Blanket Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Thermal Runaway Insulation Blanket Market Drivers

12.2 Thermal Runaway Insulation Blanket Market Restraints

12.3 Thermal Runaway Insulation Blanket Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Thermal Runaway Insulation Blanket and Key Manufacturers

13.2 Manufacturing Costs Percentage of Thermal Runaway Insulation Blanket

13.3 Thermal Runaway Insulation Blanket Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Thermal Runaway Insulation Blanket Typical Distributors

14.3 Thermal Runaway Insulation Blanket Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Thermal Runaway Insulation Blanket Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Thermal Runaway Insulation Blanket Consumption Value by Material Type, (USD Million), 2021 & 2025 & 2032

Table 3. Global Thermal Runaway Insulation Blanket Consumption Value by Form Factor, (USD Million), 2021 & 2025 & 2032

Table 4. Global Thermal Runaway Insulation Blanket Consumption Value by Functional Layer, (USD Million), 2021 & 2025 & 2032

Table 5. Global Thermal Runaway Insulation Blanket Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. Morgan Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 7. Morgan Advanced Materials Major Business

Table 8. Morgan Advanced Materials Thermal Runaway Insulation Blanket Product and Services

Table 9. Morgan Advanced Materials Thermal Runaway Insulation Blanket Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. Morgan Advanced Materials Recent Developments/Updates

Table 11. 3M Basic Information, Manufacturing Base and Competitors

Table 12. 3M Major Business

Table 13. 3M Thermal Runaway Insulation Blanket Product and Services

Table 14. 3M Thermal Runaway Insulation Blanket Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. 3M Recent Developments/Updates

Table 16. Saint-Gobain Basic Information, Manufacturing Base and Competitors

Table 17. Saint-Gobain Major Business

Table 18. Saint-Gobain Thermal Runaway Insulation Blanket Product and Services

Table 19. Saint-Gobain Thermal Runaway Insulation Blanket Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. Saint-Gobain Recent Developments/Updates

Table 21. Shenzhen Xinlun Basic Information, Manufacturing Base and Competitors

Table 22. Shenzhen Xinlun Major Business

Table 23. Shenzhen Xinlun Thermal Runaway Insulation Blanket Product and Services

Table 24. Shenzhen Xinlun Thermal Runaway Insulation Blanket Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. Shenzhen Xinlun Recent Developments/Updates

Table 26. Sinoma Science & Technology Basic Information, Manufacturing Base and Competitors

Table 27. Sinoma Science & Technology Major Business

Table 28. Sinoma Science & Technology Thermal Runaway Insulation Blanket Product and Services

Table 29. Sinoma Science & Technology Thermal Runaway Insulation Blanket Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. Sinoma Science & Technology Recent Developments/Updates

Table 31. Aspen Aerogels Basic Information, Manufacturing Base and Competitors

Table 32. Aspen Aerogels Major Business

Table 33. Aspen Aerogels Thermal Runaway Insulation Blanket Product and Services

Table 34. Aspen Aerogels Thermal Runaway Insulation Blanket Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. Aspen Aerogels Recent Developments/Updates

Table 36. Gore Basic Information, Manufacturing Base and Competitors

Table 37. Gore Major Business

Table 38. Gore Thermal Runaway Insulation Blanket Product and Services

Table 39. Gore Thermal Runaway Insulation Blanket Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. Gore Recent Developments/Updates

Table 41. Enersens (Skogar) Basic Information, Manufacturing Base and Competitors

Table 42. Enersens (Skogar) Major Business

Table 43. Enersens (Skogar) Thermal Runaway Insulation Blanket Product and Services

Table 44. Enersens (Skogar) Thermal Runaway Insulation Blanket Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. Enersens (Skogar) Recent Developments/Updates

Table 46. IBIH Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 47. IBIH Advanced Materials Major Business

Table 48. IBIH Advanced Materials Thermal Runaway Insulation Blanket Product and Services

Table 49. IBIH Advanced Materials Thermal Runaway Insulation Blanket Sales Quantity (Kilotons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 50. IBIH Advanced Materials Recent Developments/Updates

Table 51. Global Thermal Runaway Insulation Blanket Sales Quantity by Manufacturer (2021-2026) & (Kilotons)

Table 52. Global Thermal Runaway Insulation Blanket Revenue by Manufacturer (2021-2026) & (USD Million)

Table 53. Global Thermal Runaway Insulation Blanket Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 54. Market Position of Manufacturers in Thermal Runaway Insulation Blanket, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 55. Head Office and Thermal Runaway Insulation Blanket Production Site of Key Manufacturer

Table 56. Thermal Runaway Insulation Blanket Market: Company Product Type Footprint

Table 57. Thermal Runaway Insulation Blanket Market: Company Product Application Footprint

Table 58. Thermal Runaway Insulation Blanket New Market Entrants and Barriers to Market Entry

Table 59. Thermal Runaway Insulation Blanket Mergers, Acquisition, Agreements, and Collaborations

Table 60. Global Thermal Runaway Insulation Blanket Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 61. Global Thermal Runaway Insulation Blanket Sales Quantity by Region (2021-2026) & (Kilotons)

Table 62. Global Thermal Runaway Insulation Blanket Sales Quantity by Region (2027-2032) & (Kilotons)

Table 63. Global Thermal Runaway Insulation Blanket Consumption Value by Region (2021-2026) & (USD Million)

Table 64. Global Thermal Runaway Insulation Blanket Consumption Value by Region (2027-2032) & (USD Million)

Table 65. Global Thermal Runaway Insulation Blanket Average Price by Region (2021-2026) & (US\$/kg)

Table 66. Global Thermal Runaway Insulation Blanket Average Price by Region (2027-2032) & (US\$/kg)

Table 67. Global Thermal Runaway Insulation Blanket Sales Quantity by Type (2021-2026) & (Kilotons)

Table 68. Global Thermal Runaway Insulation Blanket Sales Quantity by Type

(2027-2032) & (Kilotons)

Table 69. Global Thermal Runaway Insulation Blanket Consumption Value by Type (2021-2026) & (USD Million)

Table 70. Global Thermal Runaway Insulation Blanket Consumption Value by Type (2027-2032) & (USD Million)

Table 71. Global Thermal Runaway Insulation Blanket Average Price by Type (2021-2026) & (US\$/kg)

Table 72. Global Thermal Runaway Insulation Blanket Average Price by Type (2027-2032) & (US\$/kg)

Table 73. Global Thermal Runaway Insulation Blanket Sales Quantity by Application (2021-2026) & (Kilotons)

Table 74. Global Thermal Runaway Insulation Blanket Sales Quantity by Application (2027-2032) & (Kilotons)

Table 75. Global Thermal Runaway Insulation Blanket Consumption Value by Application (2021-2026) & (USD Million)

Table 76. Global Thermal Runaway Insulation Blanket Consumption Value by Application (2027-2032) & (USD Million)

Table 77. Global Thermal Runaway Insulation Blanket Average Price by Application (2021-2026) & (US\$/kg)

Table 78. Global Thermal Runaway Insulation Blanket Average Price by Application (2027-2032) & (US\$/kg)

Table 79. North America Thermal Runaway Insulation Blanket Sales Quantity by Type (2021-2026) & (Kilotons)

Table 80. North America Thermal Runaway Insulation Blanket Sales Quantity by Type (2027-2032) & (Kilotons)

Table 81. North America Thermal Runaway Insulation Blanket Sales Quantity by Application (2021-2026) & (Kilotons)

Table 82. North America Thermal Runaway Insulation Blanket Sales Quantity by Application (2027-2032) & (Kilotons)

Table 83. North America Thermal Runaway Insulation Blanket Sales Quantity by Country (2021-2026) & (Kilotons)

Table 84. North America Thermal Runaway Insulation Blanket Sales Quantity by Country (2027-2032) & (Kilotons)

Table 85. North America Thermal Runaway Insulation Blanket Consumption Value by Country (2021-2026) & (USD Million)

Table 86. North America Thermal Runaway Insulation Blanket Consumption Value by Country (2027-2032) & (USD Million)

Table 87. Europe Thermal Runaway Insulation Blanket Sales Quantity by Type (2021-2026) & (Kilotons)

Table 88. Europe Thermal Runaway Insulation Blanket Sales Quantity by Type (2027-2032) & (Kilotons)

Table 89. Europe Thermal Runaway Insulation Blanket Sales Quantity by Application (2021-2026) & (Kilotons)

Table 90. Europe Thermal Runaway Insulation Blanket Sales Quantity by Application (2027-2032) & (Kilotons)

Table 91. Europe Thermal Runaway Insulation Blanket Sales Quantity by Country (2021-2026) & (Kilotons)

Table 92. Europe Thermal Runaway Insulation Blanket Sales Quantity by Country (2027-2032) & (Kilotons)

Table 93. Europe Thermal Runaway Insulation Blanket Consumption Value by Country (2021-2026) & (USD Million)

Table 94. Europe Thermal Runaway Insulation Blanket Consumption Value by Country (2027-2032) & (USD Million)

Table 95. Asia-Pacific Thermal Runaway Insulation Blanket Sales Quantity by Type (2021-2026) & (Kilotons)

Table 96. Asia-Pacific Thermal Runaway Insulation Blanket Sales Quantity by Type (2027-2032) & (Kilotons)

Table 97. Asia-Pacific Thermal Runaway Insulation Blanket Sales Quantity by Application (2021-2026) & (Kilotons)

Table 98. Asia-Pacific Thermal Runaway Insulation Blanket Sales Quantity by Application (2027-2032) & (Kilotons)

Table 99. Asia-Pacific Thermal Runaway Insulation Blanket Sales Quantity by Region (2021-2026) & (Kilotons)

Table 100. Asia-Pacific Thermal Runaway Insulation Blanket Sales Quantity by Region (2027-2032) & (Kilotons)

Table 101. Asia-Pacific Thermal Runaway Insulation Blanket Consumption Value by Region (2021-2026) & (USD Million)

Table 102. Asia-Pacific Thermal Runaway Insulation Blanket Consumption Value by Region (2027-2032) & (USD Million)

Table 103. South America Thermal Runaway Insulation Blanket Sales Quantity by Type (2021-2026) & (Kilotons)

Table 104. South America Thermal Runaway Insulation Blanket Sales Quantity by Type (2027-2032) & (Kilotons)

Table 105. South America Thermal Runaway Insulation Blanket Sales Quantity by Application (2021-2026) & (Kilotons)

Table 106. South America Thermal Runaway Insulation Blanket Sales Quantity by Application (2027-2032) & (Kilotons)

Table 107. South America Thermal Runaway Insulation Blanket Sales Quantity by

Country (2021-2026) & (Kilotons)

Table 108. South America Thermal Runaway Insulation Blanket Sales Quantity by Country (2027-2032) & (Kilotons)

Table 109. South America Thermal Runaway Insulation Blanket Consumption Value by Country (2021-2026) & (USD Million)

Table 110. South America Thermal Runaway Insulation Blanket Consumption Value by Country (2027-2032) & (USD Million)

Table 111. Middle East & Africa Thermal Runaway Insulation Blanket Sales Quantity by Type (2021-2026) & (Kilotons)

Table 112. Middle East & Africa Thermal Runaway Insulation Blanket Sales Quantity by Type (2027-2032) & (Kilotons)

Table 113. Middle East & Africa Thermal Runaway Insulation Blanket Sales Quantity by Application (2021-2026) & (Kilotons)

Table 114. Middle East & Africa Thermal Runaway Insulation Blanket Sales Quantity by Application (2027-2032) & (Kilotons)

Table 115. Middle East & Africa Thermal Runaway Insulation Blanket Sales Quantity by Country (2021-2026) & (Kilotons)

Table 116. Middle East & Africa Thermal Runaway Insulation Blanket Sales Quantity by Country (2027-2032) & (Kilotons)

Table 117. Middle East & Africa Thermal Runaway Insulation Blanket Consumption Value by Country (2021-2026) & (USD Million)

Table 118. Middle East & Africa Thermal Runaway Insulation Blanket Consumption Value by Country (2027-2032) & (USD Million)

Table 119. Thermal Runaway Insulation Blanket Raw Material

Table 120. Key Manufacturers of Thermal Runaway Insulation Blanket Raw Materials

Table 121. Thermal Runaway Insulation Blanket Typical Distributors

Table 122. Thermal Runaway Insulation Blanket Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Thermal Runaway Insulation Blanket Picture
- Figure 2. Global Thermal Runaway Insulation Blanket Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Thermal Runaway Insulation Blanket Revenue Market Share by Type in 2025
- Figure 4. Passive Thermal Barrier Materials Examples
- Figure 5. Phase-change / Heat Absorption Materials Examples
- Figure 6. ?Multilayer Composite Barrier System Examples
- Figure 7. Hybrid Safety Architecture Examples
- Figure 8. Global Thermal Runaway Insulation Blanket Revenue by Material Type, (USD Million), 2021 & 2025 & 2032
- Figure 9. Global Thermal Runaway Insulation Blanket Revenue Market Share by Material Type in 2025
- Figure 10. Aerogel Composite Blanket Examples
- Figure 11. Ceramic Fiber Blanket Examples
- Figure 12. Mica-based Insulation Blanket Examples
- Figure 13. Others Examples
- Figure 14. Global Thermal Runaway Insulation Blanket Revenue by Form Factor, (USD Million), 2021 & 2025 & 2032
- Figure 15. Global Thermal Runaway Insulation Blanket Revenue Market Share by Form Factor in 2025
- Figure 16. Flexible Felt Examples
- Figure 17. Sheet / Panel Examples
- Figure 18. Roll Goods Examples
- Figure 19. Custom-cut Components Examples
- Figure 20. Global Thermal Runaway Insulation Blanket Revenue by Functional Layer, (USD Million), 2021 & 2025 & 2032
- Figure 21. Global Thermal Runaway Insulation Blanket Revenue Market Share by Functional Layer in 2025
- Figure 22. Cell-level Thermal Barrier Examples
- Figure 23. Module-level Insulation Layer Examples
- Figure 24. Pack-level Propagation Barrier Examples
- Figure 25. Localized Hotspot Protection Layer Examples
- Figure 26. Global Thermal Runaway Insulation Blanket Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 27. Global Thermal Runaway Insulation Blanket Revenue Market Share by Application in 2025

Figure 28. EV Battery Pack Examples

Figure 29. Energy Storage System, ESS Examples

Figure 30. Consumer Electronics Battery Examples

Figure 31. Aerospace Battery Systems Examples

Figure 32. Global Thermal Runaway Insulation Blanket Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 33. Global Thermal Runaway Insulation Blanket Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 34. Global Thermal Runaway Insulation Blanket Sales Quantity (2021-2032) & (Kilotons)

Figure 35. Global Thermal Runaway Insulation Blanket Price (2021-2032) & (US\$/kg)

Figure 36. Global Thermal Runaway Insulation Blanket Sales Quantity Market Share by Manufacturer in 2025

Figure 37. Global Thermal Runaway Insulation Blanket Revenue Market Share by Manufacturer in 2025

Figure 38. Producer Shipments of Thermal Runaway Insulation Blanket by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 39. Top 3 Thermal Runaway Insulation Blanket Manufacturer (Revenue) Market Share in 2025

Figure 40. Top 6 Thermal Runaway Insulation Blanket Manufacturer (Revenue) Market Share in 2025

Figure 41. Global Thermal Runaway Insulation Blanket Sales Quantity Market Share by Region (2021-2032)

Figure 42. Global Thermal Runaway Insulation Blanket Consumption Value Market Share by Region (2021-2032)

Figure 43. North America Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 44. Europe Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 45. Asia-Pacific Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 46. South America Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 47. Middle East & Africa Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 48. Global Thermal Runaway Insulation Blanket Sales Quantity Market Share by Type (2021-2032)

Figure 49. Global Thermal Runaway Insulation Blanket Consumption Value Market Share by Type (2021-2032)

Figure 50. Global Thermal Runaway Insulation Blanket Average Price by Type (2021-2032) & (US\$/kg)

Figure 51. Global Thermal Runaway Insulation Blanket Sales Quantity Market Share by Application (2021-2032)

Figure 52. Global Thermal Runaway Insulation Blanket Revenue Market Share by Application (2021-2032)

Figure 53. Global Thermal Runaway Insulation Blanket Average Price by Application (2021-2032) & (US\$/kg)

Figure 54. North America Thermal Runaway Insulation Blanket Sales Quantity Market Share by Type (2021-2032)

Figure 55. North America Thermal Runaway Insulation Blanket Sales Quantity Market Share by Application (2021-2032)

Figure 56. North America Thermal Runaway Insulation Blanket Sales Quantity Market Share by Country (2021-2032)

Figure 57. North America Thermal Runaway Insulation Blanket Consumption Value Market Share by Country (2021-2032)

Figure 58. United States Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 59. Canada Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 60. Mexico Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 61. Europe Thermal Runaway Insulation Blanket Sales Quantity Market Share by Type (2021-2032)

Figure 62. Europe Thermal Runaway Insulation Blanket Sales Quantity Market Share by Application (2021-2032)

Figure 63. Europe Thermal Runaway Insulation Blanket Sales Quantity Market Share by Country (2021-2032)

Figure 64. Europe Thermal Runaway Insulation Blanket Consumption Value Market Share by Country (2021-2032)

Figure 65. Germany Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 66. France Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 67. United Kingdom Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 68. Russia Thermal Runaway Insulation Blanket Consumption Value

(2021-2032) & (USD Million)

Figure 69. Italy Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 70. Asia-Pacific Thermal Runaway Insulation Blanket Sales Quantity Market Share by Type (2021-2032)

Figure 71. Asia-Pacific Thermal Runaway Insulation Blanket Sales Quantity Market Share by Application (2021-2032)

Figure 72. Asia-Pacific Thermal Runaway Insulation Blanket Sales Quantity Market Share by Region (2021-2032)

Figure 73. Asia-Pacific Thermal Runaway Insulation Blanket Consumption Value Market Share by Region (2021-2032)

Figure 74. China Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 75. Japan Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 76. South Korea Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 77. India Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 78. Southeast Asia Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 79. Australia Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 80. South America Thermal Runaway Insulation Blanket Sales Quantity Market Share by Type (2021-2032)

Figure 81. South America Thermal Runaway Insulation Blanket Sales Quantity Market Share by Application (2021-2032)

Figure 82. South America Thermal Runaway Insulation Blanket Sales Quantity Market Share by Country (2021-2032)

Figure 83. South America Thermal Runaway Insulation Blanket Consumption Value Market Share by Country (2021-2032)

Figure 84. Brazil Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 85. Argentina Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 86. Middle East & Africa Thermal Runaway Insulation Blanket Sales Quantity Market Share by Type (2021-2032)

Figure 87. Middle East & Africa Thermal Runaway Insulation Blanket Sales Quantity Market Share by Application (2021-2032)

Figure 88. Middle East & Africa Thermal Runaway Insulation Blanket Sales Quantity Market Share by Country (2021-2032)

Figure 89. Middle East & Africa Thermal Runaway Insulation Blanket Consumption Value Market Share by Country (2021-2032)

Figure 90. Turkey Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 91. Egypt Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 92. Saudi Arabia Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 93. South Africa Thermal Runaway Insulation Blanket Consumption Value (2021-2032) & (USD Million)

Figure 94. Thermal Runaway Insulation Blanket Market Drivers

Figure 95. Thermal Runaway Insulation Blanket Market Restraints

Figure 96. Thermal Runaway Insulation Blanket Market Trends

Figure 97. Porters Five Forces Analysis

Figure 98. Manufacturing Cost Structure Analysis of Thermal Runaway Insulation Blanket in 2025

Figure 99. Manufacturing Process Analysis of Thermal Runaway Insulation Blanket

Figure 100. Thermal Runaway Insulation Blanket Industrial Chain

Figure 101. Sales Channel: Direct to End-User vs Distributors

Figure 102. Direct Channel Pros & Cons

Figure 103. Indirect Channel Pros & Cons

Figure 104. Methodology

Figure 105. Research Process and Data Source

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