

Global Thermal Runaway Insulation Blanket Market Growth 2026-2032

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Abstracts

The global Thermal Runaway Insulation Blanket market size is predicted to grow from US\$ 1457 million in 2025 to US\$ 4138 million in 2032; it is expected to grow at a CAGR of 15.9% from 2026 to 2032.

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.

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

This Insight Report provides a comprehensive analysis of the global Thermal Runaway Insulation Blanket 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 Thermal Runaway Insulation Blanket portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Thermal Runaway Insulation Blanket market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thermal Runaway Insulation Blanket 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 Thermal Runaway Insulation Blanket.

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

Segmentation by Type:

Passive Thermal Barrier Materials

Phase-change / Heat Absorption Materials

"Multilayer Composite Barrier System

Hybrid Safety Architecture

Segmentation by Material Type:

- Aerogel Composite Blanket
- Ceramic Fiber Blanket
- Mica-based Insulation Blanket
- Others

Segmentation by Form Factor:

- Flexible Felt
- Sheet / Panel
- Roll Goods
- Custom-cut Components

Segmentation by Functional Layer:

- Cell-level Thermal Barrier
- Module-level Insulation Layer
- Pack-level Propagation Barrier
- Localized Hotspot Protection Layer

Segmentation by Application:

- EV Battery Pack
- Energy Storage System, ESS

Consumer Electronics Battery

Aerospace Battery Systems

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.

Morgan Advanced Materials

3M

Saint-Gobain

Shenzhen Xinlun

Sinoma Science & Technology

Aspen Aerogels

Gore

Enersens (Skogar)

IBIH Advanced Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thermal Runaway Insulation Blanket market?

What factors are driving Thermal Runaway Insulation Blanket market growth, globally and by region?

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

How do Thermal Runaway Insulation Blanket market opportunities vary by end market size?

How does Thermal Runaway Insulation Blanket break out by Type, by Application?

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