

Global Thermal Runaway Insulation Blanket Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thermal Runaway Insulation Blanket market size is expected to reach \$ 4147 million by 2032, rising at a market growth of 14.9% CAGR during the forecast period (2026-2032).

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.

This report studies the global Thermal Runaway Insulation Blanket production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thermal Runaway Insulation Blanket and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Thermal Runaway Insulation Blanket that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thermal Runaway Insulation Blanket total production and demand, 2021-2032, (Kilotons)

Global Thermal Runaway Insulation Blanket total production value, 2021-2032, (USD Million)

Global Thermal Runaway Insulation Blanket production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Thermal Runaway Insulation Blanket consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Thermal Runaway Insulation Blanket domestic production, consumption, key domestic manufacturers and share

Global Thermal Runaway Insulation Blanket production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Thermal Runaway Insulation Blanket production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Thermal Runaway Insulation Blanket production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Thermal Runaway Insulation Blanket market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Thermal Runaway Insulation Blanket market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Thermal Runaway Insulation Blanket Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermal Runaway Insulation Blanket Market, Segmentation by Type:

Passive Thermal Barrier Materials

Phase-change / Heat Absorption Materials

?Multilayer Composite Barrier System

Hybrid Safety Architecture

Global Thermal Runaway Insulation Blanket Market, Segmentation by Material Type:

Aerogel Composite Blanket

Ceramic Fiber Blanket

Mica-based Insulation Blanket

Others

Global Thermal Runaway Insulation Blanket Market, Segmentation by Form Factor:

Flexible Felt

Sheet / Panel

Roll Goods

Custom-cut Components

Global Thermal Runaway Insulation Blanket Market, Segmentation by Functional Layer:

Cell-level Thermal Barrier

Module-level Insulation Layer

Pack-level Propagation Barrier

Localized Hotspot Protection Layer

Global Thermal Runaway Insulation Blanket Market, Segmentation by Application:

EV Battery Pack

Energy Storage System, ESS

Consumer Electronics Battery

Aerospace Battery Systems

Companies Profiled:

Morgan Advanced Materials

3M

Saint-Gobain

Shenzhen Xinlun

Sinoma Science & Technology

Aspen Aerogels

Gore

Enersens (Skogar)

IBIH Advanced Materials

Key Questions Answered:

1. How big is the global Thermal Runaway Insulation Blanket market?
2. What is the demand of the global Thermal Runaway Insulation Blanket market?
3. What is the year over year growth of the global Thermal Runaway Insulation Blanket market?
4. What is the production and production value of the global Thermal Runaway Insulation Blanket market?
5. Who are the key producers in the global Thermal Runaway Insulation Blanket market?
6. What are the growth factors driving the market demand?

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