

Global Battery Thermal Runaway Barrier Materials Market Growth 2026-2032

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Abstracts

The global Battery Thermal Runaway Barrier Materials market size is predicted to grow from US\$ 445 million in 2025 to US\$ 984 million in 2032; it is expected to grow at a CAGR of 6.7% from 2026 to 2032.

Battery Thermal Runaway Barrier Materials are passive fire-protection and thermal-insulation materials placed between cells, modules, covers, venting paths or pack walls to delay or prevent thermal propagation when a lithium-ion cell enters thermal runaway. They include mica sheets, ceramic fiber papers, aerogel pads, intumescent materials, silicone foams, multilayer laminates, graphite/ceramic shields and engineered die-cut barriers designed to protect passengers, equipment and adjacent cells. In 2025, Global Battery Thermal Runaway Barrier Materials sales are estimated at about 65 million Sqm, with an average ex-works price of about 7.0 US\$/Sq m.

The value chain runs from mica, ceramic fiber, silica aerogel, silicone, intumescent additives, aramid fiber and graphite materials to barrier sheets, laminated pads, die-cut parts, battery module suppliers, pack integrators, EV OEMs and energy-storage system manufacturers.

The market is driven by larger battery packs, higher charging rates, stricter EV and stationary storage safety requirements, and OEM efforts to extend thermal propagation time so that occupants or operators have enough time to react. Material selection is becoming more application-specific because cylindrical, prismatic and pouch cells have different venting paths, compression requirements and module layouts, making customized multilayer barriers more valuable than single-material solutions.

LP Information, Inc. (LPI) ' newest research report, the ?Battery Thermal Runaway

Barrier Materials Industry Forecast? looks at past sales and reviews total world Battery Thermal Runaway Barrier Materials sales in 2025, providing a comprehensive analysis by region and market sector of projected Battery Thermal Runaway Barrier Materials sales for 2026 through 2032. With Battery Thermal Runaway Barrier Materials sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Battery Thermal Runaway Barrier Materials industry.

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

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

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

Segmentation by Type:

Mica-Based Barrier

Ceramic Fiber Barrier

Aerogel-Based Barrier

Others

Segmentation by Placement Position:

Cell-To-Cell Barrier

Module-To-Module Barrier

Pack Cover And Vent Path Shield

Segmentation by Processing Form:

Sheet Material

Die-Cut Pad

Multilayer Laminate

Segmentation by Application:

Cylindrical Cell Pack

Prismatic Cell Pack

Pouch Cell Pack

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.

3M

Morgan Advanced Materials

Rogers Corporation

Aspen Aerogels

Saint-Gobain

L&L Products

Röchling Automotive

Parker Hannifin

Henkel

DuPont

Pyrophobic Systems

Marian

Boyd

Freudenberg

Krempel

Isovolta

Shenzhen FRD Science & Technology

Suzhou Anjie Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Battery Thermal Runaway Barrier Materials market?

What factors are driving Battery Thermal Runaway Barrier Materials market growth, globally and by region?

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

How do Battery Thermal Runaway Barrier Materials market opportunities vary by end market size?

How does Battery Thermal Runaway Barrier Materials break out by Type, by Application?

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