

Global Battery Thermal Insulation Materials Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G1722E41A400EN.html>

Date: July 2026

Pages: 164

Price: US\$ 4,480.00 (Single User License)

ID: G1722E41A400EN

Abstracts

The global Battery Thermal Insulation Materials market size is expected to reach \$ 4979 million by 2032, rising at a market growth of 16.0% CAGR during the forecast period (2026-2032).

Battery thermal insulation materials are specialized engineering substrates designed to control heat transfer, maintain optimal operating temperatures, and provide critical fire-retardant barriers within high-energy battery packs. These materials function by structurally isolating individual cells, modules, or the entire pack housing from extreme temperature spikes, directly mitigating the risk of thermal runaway propagation?the hazardous domino-effect chain reaction where a single failing cell ignites adjacent cells. Common material forms include ultra-thin silica aerogels, microporous isolation pads, ceramic fibers, and silicone foams, which provide a high thermal resistance-to-thickness ratio required for modern, space-constrained battery enclosures.

In 2025, global battery thermal insulation materials production reached approximately 694.46 k tons, with an average global market price of around US\$ 2490 per ton. And global battery thermal insulation materials production capacity reached approximately 880 k tons. The average gross margin in this industry reached 46.57%.

The upstream supply chain for battery thermal insulation materials is centered on the mining of specialized mineral deposits, the synthesis of high-performance chemical compounds, and the fabrication of raw structural composites. The primary material inputs consist of synthetic amorphous silica, wet-process electrical porcelain, raw fumed silica, premium fluoroelastomers, and advanced silicone resins. Major global chemical and material manufacturers operate at the head of this tier?including DuPont, 3M, Morgan Advanced Materials, Elkem Silicones, and specialized aerogel processors like

Aspen Aerogels and Cabot Corporation?which transform raw chemical elements into industrial-grade non-woven fiberglass matrices, ceramic fiber boards, compressible silicone foams, and flexible multi-layer insulating metal foils. To ensure strict quality compliance, these upstream suppliers increasingly integrate automated material testing and custom lamination workflows to deliver high-purity, uniform insulation sheets capable of resisting temperatures up to 1100°C before final component distribution. The downstream segment involves the mechanical application and integration of finished thermal insulation materials across a diverse range of transportation, infrastructure, and electronic market applications. The largest and fastest-growing application is the electric vehicle (EV) industry, where automotive original equipment manufacturers (OEMs) and battery tier-1 giants, such as CATL, BYD, Tesla, and LG Energy Solution, integrate the materials as cell-to-cell separators, compression pads, and top-cover shields to satisfy international crash and fire-safety standards. A second critical downstream application is in grid-scale Battery Energy Storage Systems (BESS), where utility companies utilize thick microporous insulation blocks to create fire protection zones between massive renewable energy storage racks. Additionally, these high-performance insulation materials find vital applications in consumer electronics?such as smartphones, laptops, and drones?to shield delicate user-facing surfaces from localized internal heat, as well as in cold-chain medical logistics containers to maintain stable, chilled environments for volatile biopharmaceuticals.

This report studies the global Battery Thermal Insulation Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery Thermal Insulation Materials 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 Battery Thermal Insulation Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Battery Thermal Insulation Materials total production and demand, 2021-2032, (Tons)

Global Battery Thermal Insulation Materials total production value, 2021-2032, (USD Million)

Global Battery Thermal Insulation Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Battery Thermal Insulation Materials consumption by region & country, CAGR, 2021-2032 & (Tons)

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

Global Battery Thermal Insulation Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Battery Thermal Insulation Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Battery Thermal Insulation Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Battery Thermal Insulation Materials 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 OC Oerlikon (CH), 3M (US), Isovolta (AT), DuPont (US), Nissho (JP), ITW (US), LG (KR), Aspen Aerogels (US), Hankel (DE), Elkem (NO), 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 Battery Thermal Insulation Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Battery Thermal Insulation Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Battery Thermal Insulation Materials Market, Segmentation by Type:

Aerogel

Mica Sheet

Foam

Potting Compound

Others

Global Battery Thermal Insulation Materials Market, Segmentation by Maximum Temperature Resistance:

Up to 150 ?

Up to 300 ?

Up to 600 ?

Others

Global Battery Thermal Insulation Materials Market, Segmentation by Fire Protection Standard:

UL94 V-1

UL94 V-0

Others

Global Battery Thermal Insulation Materials Market, Segmentation by Application:

Ternary Polymer Lithium Battery

LiFePO4 Battery

Others

Companies Profiled:

OC Oerlikon (CH)

3M (US)

Isovolta (AT)

DuPont (US)

Nissho (JP)

ITW (US)

LG (KR)

Aspen Aerogels (US)

Hankel (DE)

Elkem (NO)

AEROGEL TECHNOLOGY (CN)

Nano Tech (CN)

IBIH (CN)

Guangdong Alison Hi-Tech (CN)

Changzhou Tiansheng New Materials (CN)

Dongguan Silicon Xiang Insulation Material (CN)

Guangzhou Jointas Chemical (CN)

Yinbang Clad Material (CN)

Shenzhen FRD Science & Technology (CN)

Suzhou Jinfu Technology (CN)

BSC Technology (CN)

Zhejiang Ugoo Technology (CN)

Key Questions Answered:

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

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