

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

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Abstracts

The global EV Battery Thermal Insulation Materials market size is expected to reach \$ 3117 million by 2032, rising at a market growth of 12.4% CAGR during the forecast period (2026-2032).

Electric Vehicle (EV) battery thermal insulation materials are highly specialized engineering substrates designed to control heat transfer, prevent severe temperature fluctuations, and supply structural fire barriers within high-voltage EV battery packs. These materials function as defensive physical shields positioned between individual battery cells, modules, or the structural outer pack casing. Their primary objective is to maintain the battery cells within their optimal operating temperature range while successfully delaying or blocking thermal runaway propagation?the catastrophic domino-effect fire reaction that can occur if an isolated lithium-ion cell experiences an internal short-circuit and ignites.

In 2025, global Electric Vehicle (EV) battery thermal insulation materials production reached approximately 524.67 k tons, with an average global market price of around US\$ 2716 per ton. And global Electric Vehicle (EV) battery thermal insulation materials production capacity reached approximately 690 k tons. The average gross margin in this industry reached 52.05%.

The upstream supply chain for EV battery thermal insulation materials focuses on raw mineral extraction, precision polymer synthesis, and high-temperature material processing. The baseline material inputs consist of synthetic amorphous silica, raw fumed silica, high-purity alumina fibers, expanded anisotropic graphite, and specialized fluoroelastomer bindings.

Multinational chemical and material corporations dominate the apex of this upstream tier?including global entities like DuPont, 3M, Morgan Advanced Materials, Elkem Silicones, Saint-Gobain, and specialized aerogel developers such as Aspen Aerogels and Cabot Corporation. These companies process raw minerals and chemical compounds into highly uniform, finished engineering stocks, including flexible multi-layer insulating foils, lightweight aerogel sheets, ceramic papers, and compressible silicone or intumescent foams capable of surviving temperatures up to 1100°C.

The downstream segment involves the structural application and integration of these thermal barriers across a broad spectrum of commercial electric mobility and transport applications. The primary market application is concentrated within passenger Battery Electric Vehicles (BEVs) and Plug-In Hybrid Electric Vehicles (PHEVs), where tier-1 battery producers and automotive original equipment manufacturers (OEMs)?such as CATL, BYD, LG Energy Solution, Panasonic, Tesla, BMW, and Toyota?integrate the materials as custom die-cut compression pads and top-cover thermal shields to satisfy strict vehicle crash safety and cell-isolation mandates.

Additionally, these insulation solutions find widespread application in heavy-duty commercial electric mobility, including electric transit buses, municipal delivery vans, and heavy-duty logistics trucks that generate sustained structural heat during intense hauling or rapid megawatt-level charging cycles. A distinct and rapidly growing downstream niche also exists in the micromobility sector, where manufacturers of electric bikes and stand-up scooters utilize thin, flexible polyimide films and molded aerogel wrappers to insulate compact battery enclosures, protecting consumers from localized thermal throttling and battery failures in dense urban environments.

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

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

Highlights and key features of the study

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

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

Million)

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

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

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

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

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

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

This report profiles key players in the global EV 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 EV 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 EV Battery Thermal Insulation Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global EV Battery Thermal Insulation Materials Market, Segmentation by Type:

Aerogel

Mica Sheet

Foam

Potting Compound

Others

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

Up to 150 ?

Up to 300 ?

Up to 600 ?

Others

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

UL94 V-1

UL94 V-0

Others

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

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