

Global Battery Thermal Runaway Barrier Coating Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Battery Thermal Runaway Barrier Coating market size was valued at US\$ 535 million in 2025 and is forecast to a readjusted size of US\$ 1239 million by 2032 with a CAGR of 12.7% during review period.

Battery thermal runaway barrier coatings are passive safety layers applied to battery pack cover plates, housings, trays, module separators, cell surfaces, or high-voltage insulation components. They primarily function via intumescent carbon layers, ceramicized silicone layers, ceramic thermal barriers, or flame-retardant insulating layers to delay the spread of thermal runaway flames, heat, ejected particles, and arcs to the passenger cabin, adjacent cells, or external structures. Estimated gross margin is approximately 42%.

These coatings are transitioning from supplemental safety materials to standard protective layers within battery pack platform design. Higher energy-density cells, faster charging rates, and compressed CTP/CTB structures reduce cell spacing and increase the demand for cover plates, trays, and module separators to withstand thermal shocks, flame exposure, and particle impact. Buyers now assess coatings not only by temperature resistance but also by thickness, area weight, expansion ratio or ceramicization integrity, dielectric strength, adhesion, electrolyte resistance, and compatibility with automated assembly processes.

Future growth will be driven by the adoption of high-end electric vehicle battery pack platforms into mainstream vehicles and the emphasis on thermal runaway testing in energy storage systems. Intumescent epoxy and polyurethane coatings remain suitable

for large-area cover plate and housing fire protection, whereas ceramicized silicone and ceramic thermal barrier coatings are better suited for low-expansion, anti-explosion, and complex substrate applications.

Due to the need for full-pack thermal diffusion tests, UL 94, UL 2596, or OEM-specific fire tests, the onboarding cycle is long, giving suppliers who have achieved platform certification strong pricing power.

This report is a detailed and comprehensive analysis for global Battery Thermal Runaway Barrier Coating market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Battery Thermal Runaway Barrier Coating market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Battery Thermal Runaway Barrier Coating market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Battery Thermal Runaway Barrier Coating market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Battery Thermal Runaway Barrier Coating market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Battery Thermal Runaway Barrier Coating

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Battery Thermal Runaway Barrier Coating market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include PPG, Henkel, Dow, Sika, Huntsman, Zircotec, Parker LORD, AkzoNobel, Lankwitzer, H.B. Fuller, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Battery Thermal Runaway Barrier Coating market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Intumescent Char Barrier Coatings
- Ceramifying Silicone Barrier Coatings
- Ceramic Thermal Barrier Coatings
- Fire-Retardant Dielectric Coatings
- Hybrid Heat-Shield Coatings

Market segment by Coating Location

- Battery Pack Lid and Cover Coatings

Battery Tray and Enclosure Coatings

Cell and Module Surface Coatings

Intercell Barrier Coatings

Busbar and Cooling Plate Coatings

Market segment by Application Method

Robotic Spray Coatings

Flat Stream Dispensed Coatings

Powder Coatings

UV-Cured Coatings

Plasma-Sprayed Coatings

Manual Repair Coatings

Market segment by Cure System

Room-Temperature Cure Coatings

Heat-Cure Coatings

UV-Cure Coatings

Powder Bake Coatings

Plasma Deposition Coatings

Other Cure Systems

Market segment by Application

Passenger EV Battery Packs

Commercial Vehicle Battery Packs

Battery Energy Storage Systems

E-Mobility and Micromobility Batteries

Aerospace and Aviation Batteries

Industrial and Specialty Battery Packs

Major players covered

PPG

Henkel

Dow

Sika

Huntsman

Zircotec

Parker LORD

AkzoNobel

Lankwitzer

H.B. Fuller

Evonik

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Battery Thermal Runaway Barrier Coating product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Battery Thermal Runaway Barrier Coating, with price, sales quantity, revenue, and global market share of Battery Thermal Runaway Barrier Coating from 2021 to 2026.

Chapter 3, the Battery Thermal Runaway Barrier Coating competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Battery Thermal Runaway Barrier Coating breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Battery Thermal Runaway Barrier Coating market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Battery Thermal Runaway Barrier Coating.

Chapter 14 and 15, to describe Battery Thermal Runaway Barrier Coating sales channel, distributors, customers, research findings and conclusion.

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