

Global Cell-Top Thermal Runaway Potting Compound Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G71308E1AC98EN.html>

Date: July 2026

Pages: 122

Price: US\$ 3,480.00 (Single User License)

ID: G71308E1AC98EN

Abstracts

According to our (Global Info Research) latest study, the global Cell-Top Thermal Runaway Potting Compound market size was valued at US\$ 185 million in 2025 and is forecast to a readjusted size of US\$ 666 million by 2032 with a CAGR of 19.3% during review period.

Cell-Top Thermal Runaway Potting Compound is a low-density, flame-retardant, thermally insulating potting material applied or dispensed on the tops of lithium-ion battery cells, including areas around the cell terminals, busbars, bonding wires, vent valves, and local module cavities. Its primary function is to delay the propagation of flames, high-temperature ejecta, and hot gases to adjacent cells and the battery pack during single-cell thermal runaway, while also providing electrical insulation, mechanical cushioning, moisture and dust protection, and local sealing. The estimated overall gross margin is approximately 39%.

Cell-top thermal runaway potting compounds are a specialized, structural, and highly customized subcategory of battery pack thermal safety materials. Their value is not limited to filling and sealing gaps but lies in forming flame-retardant, thermally insulating, electrically isolating, and cushioning layers around cell terminals, busbars, sampling harnesses, and cover plate perimeters. This reduces the risk of flames, high-temperature particles, and conductive debris propagating upward into the electrical connection area during thermal events.

Market growth is primarily driven by the demand for more refined thermal runaway protection designs in automotive and energy storage batteries. Compared with sheet materials such as inter-cell thermal pads, mica sheets, and aerogel mats, cell-top

potting compounds are better suited for complex and irregular spaces, providing combined sealing, moisture protection, fixation, insulation, and flame/thermal barrier functionality. Trade-offs exist between thermal conductivity, density, curing speed, expansion ratio, and serviceability, making them especially suited for high-safety prismatic cell modules, cylindrical cell arrays, and energy storage clusters.

In the near term, the market is dominated by project-based introduction and customized formulations. Standardization is low, and the market scale is smaller than inter-cell thermal pads and conventional structural adhesives. However, as battery packs evolve from passive insulation to zoned thermal barriers, localized encapsulation, and thermal runaway path management, low-density, flame-retardant, and automation-compatible top potting compounds are expected to see higher growth. Future competition will focus on low-smoke, low-toxicity formulations, lightweight design, rapid curing, high-temperature impact resistance, and compatibility with battery pack manufacturing cycles.

This report is a detailed and comprehensive analysis for global Cell-Top Thermal Runaway Potting Compound 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 Cell-Top Thermal Runaway Potting Compound market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

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

Global Cell-Top Thermal Runaway Potting Compound 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 Cell-Top Thermal Runaway Potting Compound 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 Cell-Top Thermal Runaway Potting Compound

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 Cell-Top Thermal Runaway Potting Compound 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 Dow, H.B. Fuller, Parker Lord, Wacker, Henkel, Sika, Elkem, Momenite, Jointas, Beginor, etc.

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

Market Segmentation

Cell-Top Thermal Runaway Potting Compound 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

Silicone Potting Compound

Polyurethane Potting Compound

Epoxy Potting Compound

Other Resin Potting Compound

Market segment by Thermal Conductivity

Low Conductivity

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Cell-Top Thermal Runaway Potting Compound Consumption
Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Silicone Potting Compound

1.3.3 Polyurethane Potting Compound

1.3.4 Epoxy Potting Compound

1.3.5 Other Resin Potting Compound

1.4 Market Analysis by Thermal Conductivity

1.4.1 Overview: Global Cell-Top Thermal Runaway Potting Compound Consumption
Value by Thermal Conductivity: 2021 Versus 2025 Versus 2032

1.4.2 Low Conductivity

List Of Tables

LIST OF TABLES

Table 1. Global Cell-Top Thermal Runaway Potting Compound Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Cell-Top Thermal Runaway Potting Compound Consumption Value by Thermal Conductivity, (USD Million), 2021 & 2025 & 2032

Table 3. Global Cell-Top Thermal Runaway Potting Compound Consumption Value by Density, (USD Million), 2021 & 2025 & 2032

Table 4. Global Cell-Top Thermal Runaway Potting Compound Consumption Value by Curing Method, (USD Million), 2021 & 2025 & 2032

Table 5. Global Cell-Top Thermal Runaway Potting Compound Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. Dow Basic Information, Manufacturing Base and Competitors

Table 7. Dow Major Business

Table 8. Dow Cell-Top Thermal Runaway Potting Compound Product and Services

Table 9. Dow Cell-Top Thermal Runaway Potting Compound Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. Dow Recent Developments/Updates

Table 11. H.B. Fuller Basic Information, Manufacturing Base and Competitors

Table 12. H.B. Fuller Major Business

Table 13. H.B. Fuller Cell-Top Thermal Runaway Potting Compound Product and Services

Table 14. H.B. Fuller Cell-Top Thermal Runaway Potting Compound Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. H.B. Fuller Recent Developments/Updates

Table 16. Parker Lord Basic Information, Manufacturing Base and Competitors

Table 17. Parker Lord Major Business

Table 18. Parker Lord Cell-Top Thermal Runaway Potting Compound Product and Services

Table 19. Parker Lord Cell-Top Thermal Runaway Potting Compound Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. Parker Lord Recent Developments/Updates

Table 21. Wacker Basic Information, Manufacturing Base and Competitors

Table 22. Wacker Major Business

Table 23. Wacker Cell-Top Thermal Runaway Potting Compound Product and Services

Table 24. Wacker Cell-Top Thermal Runaway Potting Compound Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. Wacker Recent Developments/Updates

Table 26. Henkel Basic Information, Manufacturing Base and Competitors

Table 27. Henkel Major Business

Table 28. Henkel Cell-Top Thermal Runaway Potting Compound Product and Services

Table 29. Henkel Cell-Top Thermal Runaway Potting Compound Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. Henkel Recent Developments/Updates

Table 31. Sika Basic Information, Manufacturing Base and Competitors

Table 32. Sika Major Business

Table 33. Sika Cell-Top Thermal Runaway Potting Compound Product and Services

Table 34. Sika Cell-Top Thermal Runaway Potting Compound Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. Sika Recent Developments/Updates

Table 36. Elkem Basic Information, Manufacturing Base and Competitors

Table 37. Elkem Major Business

Table 38. Elkem Cell-Top Thermal Runaway Potting Compound Product and Services

Table 39. Elkem Cell-Top Thermal Runaway Potting Compound Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. Elkem Recent Developments/Updates

Table 41. Momentive Basic Information, Manufacturing Base and Competitors

Table 42. Momentive Major Business

Table 43. Momentive Cell-Top Thermal Runaway Potting Compound Product and Services

Table 44. Momentive Cell-Top Thermal Runaway Potting Compound Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. Momentive Recent Developments/Updates

Table 46. Jointas Basic Information, Manufacturing Base and Competitors

Table 47. Jointas Major Business

Table 48. Jointas Cell-Top Thermal Runaway Potting Compound Product and Services

Table 49. Jointas Cell-Top Thermal Runaway Potting Compound Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share

(2021-2026)

Table 50. Jointas Recent Developments/Updates

Table 51. Beginor Basic Information, Manufacturing Base and Competitors

Table 52. Beginor Major Business

Table 53. Beginor Cell-Top Thermal Runaway Potting Compound Product and Services

Table 54. Beginor Cell-Top Thermal Runaway Potting Compound Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 55. Beginor Recent Developments/Updates

Table 56. Elaplus Basic Information, Manufacturing Base and Competitors

Table 57. Elaplus Major Business

Table 58. Elaplus Cell-Top Thermal Runaway Potting Compound Product and Services

Table 59. Elaplus Cell-Top Thermal Runaway Potting Compound Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 60. Elaplus Recent Developments/Updates

Table 61. Shark Basic Information, Manufacturing Base and Competitors

Table 62. Shark Major Business

Table 63. Shark Cell-Top Thermal Runaway Potting Compound Product and Services

Table 64. Shark Cell-Top Thermal Runaway Potting Compound Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Shark Recent Developments/Updates

Table 66. Huitian Basic Information, Manufacturing Base and Competitors

Table 67. Huitian Major Business

Table 68. Huitian Cell-Top Thermal Runaway Potting Compound Product and Services

Table 69. Huitian Cell-Top Thermal Runaway Potting Compound Sales Quantity (kg), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 70. Huitian Recent Developments/Updates

Table 71. Global Cell-Top Thermal Runaway Potting Compound Sales Quantity by Manufacturer (2021-2026) & (kg)

Table 72. Global Cell-Top Thermal Runaway Potting Compound Revenue by Manufacturer (2021-2026) & (USD Million)

Table 73. Global Cell-Top Thermal Runaway Potting Compound Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 74. Market Position of Manufacturers in Cell-Top Thermal Runaway Potting Compound, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 75. Head Office and Cell-Top Thermal Runaway Potting Compound Production

Site of Key Manufacturer

Table 76. Cell-Top Thermal Runaway Potting Compound Market: Company Product Type Footprint

Table 77. Cell-Top Thermal Runaway Potting Compound Market: Company Product Application Footprint

Table 78. Cell-Top Thermal Runaway Potting Compound New Market Entrants and Barriers to Market Entry

Table 79. Cell-Top Thermal Runaway Potting Compound Mergers, Acquisition, Agreements, and Collaborations

Table 80. Global Cell-Top Thermal Runaway Potting Compound Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 81. Global Cell-Top Thermal Runaway Potting Compound Sales Quantity by Region (2021-2026) & (kg)

Table 82. Global Cell-Top Thermal Runaway Potting Compound Sales Quantity by Region (2027-2032) & (kg)

Table 83. Global Cell-Top Thermal Runaway Potting Compound Consumption Value by Region (2021-2026) & (USD Million)

Table 84. Global Cell-Top Thermal Runaway Potting Compound Consumption Value by Region (2027-2032) & (USD Million)

Table 85. Global Cell-Top Thermal Runaway Potting Compound Average Price by Region (2021-2026) & (US\$/kg)

Table 86. Global Cell-Top Thermal Runaway Potting Compound Average Price by Region (2027-2032) & (US\$/kg)

Table 87. Global Cell-Top Thermal Runaway Potting Compound Sales Quantity by Type (2021-2026) & (kg)

Table 88. Global Cell-Top Thermal Runaway Potting Compound Sales Quantity by Type (2027-2032) & (kg)

Table 89. Global Cell-Top Thermal Runaway Potting Compound Consumption Value by Type (2021-2026) & (USD Million)

Table 90. Global Cell-Top Thermal Runaway Potting Compound Consumption Value by Type (2027-2032) & (USD Million)

Table 91. Global Cell-Top Thermal Runaway Potting Compound Average Price by Type (2021-2026) & (US\$/kg)

Table 92. Global Cell-Top Thermal Runaway Potting Compound Average Price by Type (2027-2032) & (US\$/kg)

Table 93. Global Cell-Top Thermal Runaway Potting Compound Sales Quantity by Application (2021-2026) & (kg)

Table 94. Global Cell-Top Thermal Runaway Potting Compound Sales Quantity by Application (2027-2032) & (kg)

Table 95. Global Cell-Top Thermal Runaway Potting Compound Consumption Value by Application (2021-2026) & (USD Million)

Table 96. Global Cell-Top Thermal Runaway Potting Compound Consumption Value by Application (2027-2032) & (USD Million)

Table 97. Global Cell-Top Thermal Runaway Potting Compound Average Price by Application (2021-2026) & (US\$/kg)

Table 98. Global Cell-Top Thermal Runaway Potting Compound Average Price by Application (2027-2032) & (US\$/kg)

Table 99. North America Cell-Top Thermal Runaway Potting Compound Sales Quantity by Type (2021-2026) & (kg)

Table 100. North America Cell-Top Thermal Runaway Potting Compound Sales Quantity by Type (2027-2032) & (kg)

Table 101. North America Cell-Top Thermal Runaway Potting Compound Sales Quantity by Application (2021-2026) & (kg)

Table 102. North America Cell-Top Thermal Runaway Potting Compound Sales Quantity by Application (2027-2032) & (kg)

Table 103. North America Cell-Top Thermal Runaway Potting Compound Sales Quantity by Country (2021-2026) & (kg)

Table 104. North America Cell-Top Thermal Runaway Potting Compound Sales Quantity by Country (2027-2032) & (kg)

Table 105. North America Cell-Top Thermal Runaway Potting Compound Consumption Value by Country (2021-2026) & (USD Million)

Table 106. North America Cell-Top Thermal Runaway Potting Compound Consumption Value by Country (2027-2032) & (USD Million)

Table 107. Europe Cell-Top Thermal Runaway Potting Compound Sales Quantity by Type (2021-2026) & (kg)

Table 108. Europe Cell-Top Thermal Runaway Potting Compound Sales Quantity by Type (2027-2032) & (kg)

Table 109. Europe Cell-Top Thermal Runaway Potting Compound Sales Quantity by Application (2021-2026) & (kg)

Table 110. Europe Cell-Top Thermal Runaway Potting Compound Sales Quantity by Application (2027-2032) & (kg)

Table 111. Europe Cell-Top Thermal Runaway Potting Compound Sales Quantity by Country (2021-2026) & (kg)

Table 112. Europe Cell-Top Thermal Runaway Potting Compound Sales Quantity by Country (2027-2032) & (kg)

Table 113. Europe Cell-Top Thermal Runaway Potting Compound Consumption Value by Country (2021-2026) & (USD Million)

Table 114. Europe Cell-Top Thermal Runaway Potting Compound Consumption Value

by Country (2027-2032) & (USD Million)

Table 115. Asia-Pacific Cell-Top Thermal Runaway Potting Compound Sales Quantity by Type (2021-2026) & (kg)

Table 116. Asia-Pacific Cell-Top Thermal Runaway Potting Compound Sales Quantity by Type (2027-2032) & (kg)

Table 117. Asia-Pacific Cell-Top Thermal Runaway Potting Compound Sales Quantity by Application (2021-2026) & (kg)

Table 118. Asia-Pacific Cell-Top Thermal Runaway Potting Compound Sales Quantity by Application (2027-2032) & (kg)

Table 119. Asia-Pacific Cell-Top Thermal Runaway Potting Compound Sales Quantity by Region (2021-2026) & (kg)

Table 120. Asia-Pacific Cell-Top Thermal Runaway Potting Compound Sales Quantity by Region (2027-2032) & (kg)

Table 121. Asia-Pacific Cell-Top Thermal Runaway Potting Compound Consumption Value by Region (2021-2026) & (USD Million)

Table 122. Asia-Pacific Cell-Top Thermal Runaway Potting Compound Consumption Value by Region (2027-2032) & (USD Million)

Table 123. South America Cell-Top Thermal Runaway Potting Compound Sales Quantity by Type (2021-2026) & (kg)

Table 124. South America Cell-Top Thermal Runaway Potting Compound Sales Quantity by Type (2027-2032) & (kg)

Table 125. South America Cell-Top Thermal Runaway Potting Compound Sales Quantity by Application (2021-2026) & (kg)

Table 126. South America Cell-Top Thermal Runaway Potting Compound Sales Quantity by Application (2027-2032) & (kg)

Table 127. South America Cell-Top Thermal Runaway Potting Compound Sales Quantity by Country (2021-2026) & (kg)

Table 128. South America Cell-Top Thermal Runaway Potting Compound Sales Quantity by Country (2027-2032) & (kg)

Table 129. South America Cell-Top Thermal Runaway Potting Compound Consumption Value by Country (2021-2026) & (USD Million)

Table 130. South America Cell-Top Thermal Runaway Potting Compound Consumption Value by Country (2027-2032) & (USD Million)

Table 131. Middle East & Africa Cell-Top Thermal Runaway Potting Compound Sales Quantity by Type (2021-2026) & (kg)

Table 132. Middle East & Africa Cell-Top Thermal Runaway Potting Compound Sales Quantity by Type (2027-2032) & (kg)

Table 133. Middle East & Africa Cell-Top Thermal Runaway Potting Compound Sales Quantity by Application (2021-2026) & (kg)

Table 134. Middle East & Africa Cell-Top Thermal Runaway Potting Compound Sales Quantity by Application (2027-2032) & (kg)

Table 135. Middle East & Africa Cell-Top Thermal Runaway Potting Compound Sales Quantity by Country (2021-2026) & (kg)

Table 136. Middle East & Africa Cell-Top Thermal Runaway Potting Compound Sales Quantity by Country (2027-2032) & (kg)

Table 137. Middle East & Africa Cell-Top Thermal Runaway Potting Compound Consumption Value by Country (2021-2026) & (USD Million)

Table 138. Middle East & Africa Cell-Top Thermal Runaway Potting Compound Consumption Value by Country (2027-2032) & (USD Million)

Table 139. Cell-Top Thermal Runaway Potting Compound Raw Material

Table 140. Key Manufacturers of Cell-Top Thermal Runaway Potting Compound Raw Materials

Table 141. Cell-Top Thermal Runaway Potting Compound Typical Distributors

Table 142. Cell-Top Thermal Runaway Potting Compound Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Cell-Top Thermal Runaway Potting Compound Picture

Figure 2. Global Cell-Top Thermal Runaway Potting Compound Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Cell-Top Thermal Runaway Potting Compound Revenue Market Share by Type in 2025

Figure 4. Silicone Potting Compound Examples

Figure 5. Polyurethane Potting Compound Examples

Figure 6. Epoxy Potting Compound Examples

Figure 7. Other Resin Potting Compound Examples

Figure 8. Global Cell-Top Thermal Runaway Potting Compound Revenue by Thermal Conductivity, (USD Million), 2021 & 2025 & 2032

Figure 9. Global Cell-Top Thermal Runaway Potting Compound Revenue Market Share by Thermal Conductivity in 2025

Figure 10. Low Conductivity

I would like to order

Product name: Global Cell-Top Thermal Runaway Potting Compound Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: <https://marketpublishers.com/r/G71308E1AC98EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G71308E1AC98EN.html>