

Global Automotive-grade Safety Film Capacitor 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 Automotive-grade Safety Film Capacitor market size was valued at US\$ 104 million in 2025 and is forecast to a readjusted size of US\$ 183 million by 2032 with a CAGR of 8.3% during review period.

Automotive-grade Safety Film Capacitor is a safety-certified film capacitor designed for automotive electronic systems, utilizing metallized film dielectric structures to provide stable filtering, interference suppression, insulation protection, and voltage smoothing under high temperature, vibration, and high-voltage operating conditions. It is widely used in automotive powertrain systems and charging systems to improve electrical safety, reduce conducted interference, and maintain stable circuit operation in harsh vehicle environments. Its advantages include high reliability, low dielectric loss, strong heat resistance, stable capacitance performance, long service life, and strong adaptability to automotive-grade operating environments. In 2025, production was 112 million units and the average price was USD 0.9 per unit. The industry's capacity utilization rate in 2025 was about 80% and the average gross margin was around 28%. Upstream, the core inputs for Automotive-grade Safety Film Capacitor are polypropylene base film, especially BOPP film, and aluminum metallized coating materials, with representative suppliers including Toray Industries, Toyobo, Bollor?, Steinerfilm, Anhui Tongfeng Electronics, Xiamen Faratronic, and Chalco providing key film and metal material support. The midstream segment focuses on base film pretreatment, vacuum metallization, precision winding, thermal pressing, spraying, encapsulation, aging, automotive-grade reliability testing, and safety certification, which determine capacitance stability, insulation strength, heat resistance, vibration resistance, and long-term operating reliability. Downstream, Automotive-grade Safety

Film Capacitor is mainly used in powertrain systems and charging systems, with representative customers including Tesla, Toyota, Volkswagen, BYD, Hyundai Motor, BMW, and Mercedes-Benz.

Automotive-grade Safety Film Capacitor will gain more use as electric vehicle powertrain and charging systems adopt higher voltage, higher power density, and stricter safety requirements. In these circuits, it supports interference suppression, insulation protection, voltage smoothing, and stable operation under heat and vibration. Future development will be driven by 400V and 800V platforms, fast-charging architectures, and automotive-grade certification standards, with product upgrades focusing on heat resistance, long-term capacitance stability, low loss, and safety reliability.

This report is a detailed and comprehensive analysis for global Automotive-grade Safety Film Capacitor 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 Automotive-grade Safety Film Capacitor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-grade Safety Film Capacitor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-grade Safety Film Capacitor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-grade Safety Film Capacitor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Automotive-grade Safety Film Capacitor

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 Automotive-grade Safety Film Capacitor 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 Panasonic (Japan), Yageo (Taiwan), Xiamen Faratronic (China), Anhui Tongfeng Electronic (China), Nichicon (Japan), TDK Corporation (Japan), Eagtop (China), Nantong Jianghai Capacitor (China), Guangdong Fengming Electronic Technology (China), Vishay (USA), etc.

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

Market Segmentation

Automotive-grade Safety Film Capacitor 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

Y2

X2

Others

Market segment by Capacitance Range

Capacitance

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 Automotive-grade Safety Film Capacitor Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Y2

1.3.3 X2

1.3.4 Others

1.4 Market Analysis by Capacitance Range

1.4.1 Overview: Global Automotive-grade Safety Film Capacitor Consumption Value by Capacitance Range: 2021 Versus 2025 Versus 2032

1.4.2 Capacitance

List Of Tables

LIST OF TABLES

Table 1. Global Automotive-grade Safety Film Capacitor Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Automotive-grade Safety Film Capacitor Consumption Value by Capacitance Range, (USD Million), 2021 & 2025 & 2032

Table 3. Global Automotive-grade Safety Film Capacitor Consumption Value by Operating Temperature, (USD Million), 2021 & 2025 & 2032

Table 4. Global Automotive-grade Safety Film Capacitor Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Panasonic (Japan) Basic Information, Manufacturing Base and Competitors

Table 6. Panasonic (Japan) Major Business

Table 7. Panasonic (Japan) Automotive-grade Safety Film Capacitor Product and Services

Table 8. Panasonic (Japan) Automotive-grade Safety Film Capacitor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Panasonic (Japan) Recent Developments/Updates

Table 10. Yageo (Taiwan) Basic Information, Manufacturing Base and Competitors

Table 11. Yageo (Taiwan) Major Business

Table 12. Yageo (Taiwan) Automotive-grade Safety Film Capacitor Product and Services

Table 13. Yageo (Taiwan) Automotive-grade Safety Film Capacitor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Yageo (Taiwan) Recent Developments/Updates

Table 15. Xiamen Faratronic (China) Basic Information, Manufacturing Base and Competitors

Table 16. Xiamen Faratronic (China) Major Business

Table 17. Xiamen Faratronic (China) Automotive-grade Safety Film Capacitor Product and Services

Table 18. Xiamen Faratronic (China) Automotive-grade Safety Film Capacitor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Xiamen Faratronic (China) Recent Developments/Updates

Table 20. Anhui Tongfeng Electronic (China) Basic Information, Manufacturing Base and Competitors

Table 21. Anhui Tongfeng Electronic (China) Major Business

Table 22. Anhui Tongfeng Electronic (China) Automotive-grade Safety Film Capacitor Product and Services

Table 23. Anhui Tongfeng Electronic (China) Automotive-grade Safety Film Capacitor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Anhui Tongfeng Electronic (China) Recent Developments/Updates

Table 25. Nichicon (Japan) Basic Information, Manufacturing Base and Competitors

Table 26. Nichicon (Japan) Major Business

Table 27. Nichicon (Japan) Automotive-grade Safety Film Capacitor Product and Services

Table 28. Nichicon (Japan) Automotive-grade Safety Film Capacitor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Nichicon (Japan) Recent Developments/Updates

Table 30. TDK Corporation (Japan) Basic Information, Manufacturing Base and Competitors

Table 31. TDK Corporation (Japan) Major Business

Table 32. TDK Corporation (Japan) Automotive-grade Safety Film Capacitor Product and Services

Table 33. TDK Corporation (Japan) Automotive-grade Safety Film Capacitor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. TDK Corporation (Japan) Recent Developments/Updates

Table 35. Eagtop (China) Basic Information, Manufacturing Base and Competitors

Table 36. Eagtop (China) Major Business

Table 37. Eagtop (China) Automotive-grade Safety Film Capacitor Product and Services

Table 38. Eagtop (China) Automotive-grade Safety Film Capacitor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Eagtop (China) Recent Developments/Updates

Table 40. Nantong Jianghai Capacitor (China) Basic Information, Manufacturing Base and Competitors

Table 41. Nantong Jianghai Capacitor (China) Major Business

Table 42. Nantong Jianghai Capacitor (China) Automotive-grade Safety Film Capacitor Product and Services

Table 43. Nantong Jianghai Capacitor (China) Automotive-grade Safety Film Capacitor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

- Table 44. Nantong Jianghai Capacitor (China) Recent Developments/Updates
- Table 45. Guangdong Fengming Electronic Technology (China) Basic Information, Manufacturing Base and Competitors
- Table 46. Guangdong Fengming Electronic Technology (China) Major Business
- Table 47. Guangdong Fengming Electronic Technology (China) Automotive-grade Safety Film Capacitor Product and Services
- Table 48. Guangdong Fengming Electronic Technology (China) Automotive-grade Safety Film Capacitor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 49. Guangdong Fengming Electronic Technology (China) Recent Developments/Updates
- Table 50. Vishay (USA) Basic Information, Manufacturing Base and Competitors
- Table 51. Vishay (USA) Major Business
- Table 52. Vishay (USA) Automotive-grade Safety Film Capacitor Product and Services
- Table 53. Vishay (USA) Automotive-grade Safety Film Capacitor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 54. Vishay (USA) Recent Developments/Updates
- Table 55. JMX (China) Basic Information, Manufacturing Base and Competitors
- Table 56. JMX (China) Major Business
- Table 57. JMX (China) Automotive-grade Safety Film Capacitor Product and Services
- Table 58. JMX (China) Automotive-grade Safety Film Capacitor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 59. JMX (China) Recent Developments/Updates
- Table 60. AVX Corporation (USA) Basic Information, Manufacturing Base and Competitors
- Table 61. AVX Corporation (USA) Major Business
- Table 62. AVX Corporation (USA) Automotive-grade Safety Film Capacitor Product and Services
- Table 63. AVX Corporation (USA) Automotive-grade Safety Film Capacitor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 64. AVX Corporation (USA) Recent Developments/Updates
- Table 65. WIMA (Germany) Basic Information, Manufacturing Base and Competitors
- Table 66. WIMA (Germany) Major Business
- Table 67. WIMA (Germany) Automotive-grade Safety Film Capacitor Product and Services
- Table 68. WIMA (Germany) Automotive-grade Safety Film Capacitor Sales Quantity (K

Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. WIMA (Germany) Recent Developments/Updates

Table 70. Global Automotive-grade Safety Film Capacitor Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 71. Global Automotive-grade Safety Film Capacitor Revenue by Manufacturer (2021-2026) & (USD Million)

Table 72. Global Automotive-grade Safety Film Capacitor Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 73. Market Position of Manufacturers in Automotive-grade Safety Film Capacitor, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 74. Head Office and Automotive-grade Safety Film Capacitor Production Site of Key Manufacturer

Table 75. Automotive-grade Safety Film Capacitor Market: Company Product Type Footprint

Table 76. Automotive-grade Safety Film Capacitor Market: Company Product Application Footprint

Table 77. Automotive-grade Safety Film Capacitor New Market Entrants and Barriers to Market Entry

Table 78. Automotive-grade Safety Film Capacitor Mergers, Acquisition, Agreements, and Collaborations

Table 79. Global Automotive-grade Safety Film Capacitor Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 80. Global Automotive-grade Safety Film Capacitor Sales Quantity by Region (2021-2026) & (K Units)

Table 81. Global Automotive-grade Safety Film Capacitor Sales Quantity by Region (2027-2032) & (K Units)

Table 82. Global Automotive-grade Safety Film Capacitor Consumption Value by Region (2021-2026) & (USD Million)

Table 83. Global Automotive-grade Safety Film Capacitor Consumption Value by Region (2027-2032) & (USD Million)

Table 84. Global Automotive-grade Safety Film Capacitor Average Price by Region (2021-2026) & (US\$/Unit)

Table 85. Global Automotive-grade Safety Film Capacitor Average Price by Region (2027-2032) & (US\$/Unit)

Table 86. Global Automotive-grade Safety Film Capacitor Sales Quantity by Type (2021-2026) & (K Units)

Table 87. Global Automotive-grade Safety Film Capacitor Sales Quantity by Type (2027-2032) & (K Units)

Table 88. Global Automotive-grade Safety Film Capacitor Consumption Value by Type (2021-2026) & (USD Million)

Table 89. Global Automotive-grade Safety Film Capacitor Consumption Value by Type (2027-2032) & (USD Million)

Table 90. Global Automotive-grade Safety Film Capacitor Average Price by Type (2021-2026) & (US\$/Unit)

Table 91. Global Automotive-grade Safety Film Capacitor Average Price by Type (2027-2032) & (US\$/Unit)

Table 92. Global Automotive-grade Safety Film Capacitor Sales Quantity by Application (2021-2026) & (K Units)

Table 93. Global Automotive-grade Safety Film Capacitor Sales Quantity by Application (2027-2032) & (K Units)

Table 94. Global Automotive-grade Safety Film Capacitor Consumption Value by Application (2021-2026) & (USD Million)

Table 95. Global Automotive-grade Safety Film Capacitor Consumption Value by Application (2027-2032) & (USD Million)

Table 96. Global Automotive-grade Safety Film Capacitor Average Price by Application (2021-2026) & (US\$/Unit)

Table 97. Global Automotive-grade Safety Film Capacitor Average Price by Application (2027-2032) & (US\$/Unit)

Table 98. North America Automotive-grade Safety Film Capacitor Sales Quantity by Type (2021-2026) & (K Units)

Table 99. North America Automotive-grade Safety Film Capacitor Sales Quantity by Type (2027-2032) & (K Units)

Table 100. North America Automotive-grade Safety Film Capacitor Sales Quantity by Application (2021-2026) & (K Units)

Table 101. North America Automotive-grade Safety Film Capacitor Sales Quantity by Application (2027-2032) & (K Units)

Table 102. North America Automotive-grade Safety Film Capacitor Sales Quantity by Country (2021-2026) & (K Units)

Table 103. North America Automotive-grade Safety Film Capacitor Sales Quantity by Country (2027-2032) & (K Units)

Table 104. North America Automotive-grade Safety Film Capacitor Consumption Value by Country (2021-2026) & (USD Million)

Table 105. North America Automotive-grade Safety Film Capacitor Consumption Value by Country (2027-2032) & (USD Million)

Table 106. Europe Automotive-grade Safety Film Capacitor Sales Quantity by Type (2021-2026) & (K Units)

Table 107. Europe Automotive-grade Safety Film Capacitor Sales Quantity by Type

(2027-2032) & (K Units)

Table 108. Europe Automotive-grade Safety Film Capacitor Sales Quantity by Application (2021-2026) & (K Units)

Table 109. Europe Automotive-grade Safety Film Capacitor Sales Quantity by Application (2027-2032) & (K Units)

Table 110. Europe Automotive-grade Safety Film Capacitor Sales Quantity by Country (2021-2026) & (K Units)

Table 111. Europe Automotive-grade Safety Film Capacitor Sales Quantity by Country (2027-2032) & (K Units)

Table 112. Europe Automotive-grade Safety Film Capacitor Consumption Value by Country (2021-2026) & (USD Million)

Table 113. Europe Automotive-grade Safety Film Capacitor Consumption Value by Country (2027-2032) & (USD Million)

Table 114. Asia-Pacific Automotive-grade Safety Film Capacitor Sales Quantity by Type (2021-2026) & (K Units)

Table 115. Asia-Pacific Automotive-grade Safety Film Capacitor Sales Quantity by Type (2027-2032) & (K Units)

Table 116. Asia-Pacific Automotive-grade Safety Film Capacitor Sales Quantity by Application (2021-2026) & (K Units)

Table 117. Asia-Pacific Automotive-grade Safety Film Capacitor Sales Quantity by Application (2027-2032) & (K Units)

Table 118. Asia-Pacific Automotive-grade Safety Film Capacitor Sales Quantity by Region (2021-2026) & (K Units)

Table 119. Asia-Pacific Automotive-grade Safety Film Capacitor Sales Quantity by Region (2027-2032) & (K Units)

Table 120. Asia-Pacific Automotive-grade Safety Film Capacitor Consumption Value by Region (2021-2026) & (USD Million)

Table 121. Asia-Pacific Automotive-grade Safety Film Capacitor Consumption Value by Region (2027-2032) & (USD Million)

Table 122. South America Automotive-grade Safety Film Capacitor Sales Quantity by Type (2021-2026) & (K Units)

Table 123. South America Automotive-grade Safety Film Capacitor Sales Quantity by Type (2027-2032) & (K Units)

Table 124. South America Automotive-grade Safety Film Capacitor Sales Quantity by Application (2021-2026) & (K Units)

Table 125. South America Automotive-grade Safety Film Capacitor Sales Quantity by Application (2027-2032) & (K Units)

Table 126. South America Automotive-grade Safety Film Capacitor Sales Quantity by Country (2021-2026) & (K Units)

Table 127. South America Automotive-grade Safety Film Capacitor Sales Quantity by Country (2027-2032) & (K Units)

Table 128. South America Automotive-grade Safety Film Capacitor Consumption Value by Country (2021-2026) & (USD Million)

Table 129. South America Automotive-grade Safety Film Capacitor Consumption Value by Country (2027-2032) & (USD Million)

Table 130. Middle East & Africa Automotive-grade Safety Film Capacitor Sales Quantity by Type (2021-2026) & (K Units)

Table 131. Middle East & Africa Automotive-grade Safety Film Capacitor Sales Quantity by Type (2027-2032) & (K Units)

Table 132. Middle East & Africa Automotive-grade Safety Film Capacitor Sales Quantity by Application (2021-2026) & (K Units)

Table 133. Middle East & Africa Automotive-grade Safety Film Capacitor Sales Quantity by Application (2027-2032) & (K Units)

Table 134. Middle East & Africa Automotive-grade Safety Film Capacitor Sales Quantity by Country (2021-2026) & (K Units)

Table 135. Middle East & Africa Automotive-grade Safety Film Capacitor Sales Quantity by Country (2027-2032) & (K Units)

Table 136. Middle East & Africa Automotive-grade Safety Film Capacitor Consumption Value by Country (2021-2026) & (USD Million)

Table 137. Middle East & Africa Automotive-grade Safety Film Capacitor Consumption Value by Country (2027-2032) & (USD Million)

Table 138. Automotive-grade Safety Film Capacitor Raw Material

Table 139. Key Manufacturers of Automotive-grade Safety Film Capacitor Raw Materials

Table 140. Automotive-grade Safety Film Capacitor Typical Distributors

Table 141. Automotive-grade Safety Film Capacitor Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Automotive-grade Safety Film Capacitor Picture

Figure 2. Global Automotive-grade Safety Film Capacitor Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Automotive-grade Safety Film Capacitor Revenue Market Share by Type in 2025

Figure 4. Y2 Examples

Figure 5. X2 Examples

Figure 6. Others Examples

Figure 7. Global Automotive-grade Safety Film Capacitor Revenue by Capacitance Range, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Automotive-grade Safety Film Capacitor Revenue Market Share by Capacitance Range in 2025

Figure 9. Capacitance

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