

Global Aerospace PMI Foam Core Market Growth 2026-2032

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Abstracts

The global Aerospace PMI Foam Core market size is predicted to grow from US\$ 183 million in 2025 to US\$ 323 million in 2032; it is expected to grow at a CAGR of 8.5% from 2026 to 2032.

In 2025, global Aerospace PMI Foam Core production reached 261,830 cubic meters, with an average selling price of US\$714.28/cubic meter. Haobo (Fujian) New Materials Technology Co., Ltd. has established a PMI foam production line with an annual capacity of 5,000 cubic meters. Rigid foam is the core material in sandwich composite materials. Sandwich structures are a special form of laminated composite materials, generally consisting of facesheets, a bonding layer between the facesheets and the core, and the core. Rigid foam plastics, used as core materials, are primarily used to enhance rigidity and reduce weight. They also have low water absorption and excellent sound and thermal insulation properties, making them widely used in wind power generation, aerospace, shipbuilding, rail transit, green building, and other fields. Major rigid foam materials on the market include PVC foam, PET foam, and PMI foam. PMI foam, due to its superior overall performance, is generally used in demanding components in the aerospace industry. Among foams of the same density, PMI foam currently has the highest specific strength and specific stiffness among rigid closed-cell foams. The pore surfaces of PMI foam materials are composed of solid components, which increase the stiffness of the porous structure. In composite sandwich structures, PMI foam can serve as a structural unit. Currently, PMI is widely used in the European and American aviation sectors, with 80% of US military aircraft using PMI and 83% of civilian aircraft like Boeing. However, PMI usage in the Chinese aviation sector remains around 7%. This is primarily due to significant technological differences between China and other countries, as China still lacks the engineering technology for Z-reinforced PMI (patented by the US company Aztex for its Z-pin). Currently, Evonik products from

Germany dominates the market for Aerospace PMI Foam Core. Only a few Chinese manufacturers, including Hunan Zihard Material Technology Co., Ltd., Cashem Advanced Materials Hi-tech Co., Ltd. and Hybo FOAM, have achieved domestic production. The rapid growth of the military industry in recent years, coupled with strong demand for lightweight composite materials for fighter jets and drones, presents growth opportunities for domestic manufacturers.

In the aerospace industry, aerospace composite components are typically 'sandwich' structures, consisting of a skin layer and a core material. Currently, the main types of composite core materials are honeycomb, rigid foam, and balsa wood. Honeycomb cores primarily use aluminum honeycomb and paper honeycomb, rigid foams include PMI, PVC, PET, PU, and EPS, and balsa wood is mainly balsa wood. Composite sandwich structures are the preferred choice for manufacturing lightweight, high-strength aircraft components. They are commonly used in wing leading edges, rudders, landing gear doors, wing bodies, and wingtip fairings. Among foams of the same density, PMI foam currently boasts the highest specific strength and specific stiffness among rigid closed-cell foam materials. The pores of PMI foam are composed of truly solid parts, increasing the stiffness of the porous structure. In composite sandwich structures, PMI foam can serve as a structural unit. Currently, the application of PMI in the European and American aerospace fields is highly mature, with 80% of US military aircraft and 83% of Boeing and other commercial aircraft using PMI. In contrast, the application of PMI in the Chinese aerospace field is around 7%. The main reason is the significant technological differences between China and other countries. China has not yet mastered the engineering technology of Z-axis enhanced PMI (Z-pin patent of Aztex Corporation in the United States).

LP Information, Inc. (LPI)'s newest research report, the "Aerospace PMI Foam Core Industry Forecast" looks at past sales and reviews total world Aerospace PMI Foam Core sales in 2025, providing a comprehensive analysis by region and market sector of projected Aerospace PMI Foam Core sales for 2026 through 2032. With Aerospace PMI Foam Core sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Aerospace PMI Foam Core industry.

This Insight Report provides a comprehensive analysis of the global Aerospace PMI Foam Core landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Aerospace PMI Foam Core portfolios and capabilities, market entry strategies, market

positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Aerospace PMI Foam Core market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Aerospace PMI Foam Core and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Aerospace PMI Foam Core.

This report presents a comprehensive overview, market shares, and growth opportunities of Aerospace PMI Foam Core market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Small Pores (Foam Pores & Low Viscosity)

Medium Pores (Foam Pores & Medium Viscosity)

Large Pores (Foam Pores & High Viscosity)

Segmentation by Density (kg/m³):

110 kg/m³

Segmentation by Heat Deflection Temperature:

High Temperature (200°C)

Ultra-high Temperature (240°C)

Segmentation by Structural Parts:

Fuselage

Wings

Propeller Blades

Other

Segmentation by Application:

Civilian Aircraft? Large Commercial Aircraft & Business Jets & Helicopters?

Military Aircraft

UAVs

Flying Cars

Aerospace

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Evonik

Cel Components srl

Future Composites Co., Ltd

TOPOLO New Materials

Hunan Zihard Material Technology Co., Ltd.?Longhua Technology Group
(Luoyang) Co., Ltd.?

Cashem Advanced Materials Hi-tech Co.,Ltd

Hybo FOAM

Boom New Materials

ARCHCELL

CNGR Advanced Material Co., Ltd.

Baoding Visight Advanced Material Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Aerospace PMI Foam Core market?

What factors are driving Aerospace PMI Foam Core market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Aerospace PMI Foam Core market opportunities vary by end market size?

How does Aerospace PMI Foam Core break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Aerospace PMI Foam Core Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Aerospace PMI Foam Core by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Aerospace PMI Foam Core by Country/Region, 2021, 2025 & 2032

2.2 Aerospace PMI Foam Core Segment by Type

- 2.2.1 Small Pores (Foam Pores & Low Viscosity)
- 2.2.2 Medium Pores (Foam Pores & Medium Viscosity)
- 2.2.3 Large Pores (Foam Pores & High Viscosity)
- 2.2.4 Aerospace PMI Foam Core Sales by Type
 - 2.2.4.1 Global Aerospace PMI Foam Core Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Aerospace PMI Foam Core Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Aerospace PMI Foam Core Sale Price by Type (2021-2026)

2.3 Aerospace PMI Foam Core Segment by Density (kg/m³)

- 2.3.1 110 kg/m³
- 2.3.5 Aerospace PMI Foam Core Sales by Density (kg/m³)
 - 2.3.5.1 Global Aerospace PMI Foam Core Sales Market Share by Density (kg/m³) (2021-2026)
 - 2.3.5.2 Global Aerospace PMI Foam Core Revenue and Market Share by Density (kg/m³) (2021-2026)
 - 2.3.5.3 Global Aerospace PMI Foam Core Sale Price by Density (kg/m³) (2021-2026)

2.4 Aerospace PMI Foam Core Segment by Heat Deflection Temperature

- 2.4.1 High Temperature (200°C)
- 2.4.2 Ultra-high Temperature (240°C)
- 2.4.3 Aerospace PMI Foam Core Sales by Heat Deflection Temperature
 - 2.4.3.1 Global Aerospace PMI Foam Core Sales Market Share by Heat Deflection Temperature (2021-2026)
 - 2.4.3.2 Global Aerospace PMI Foam Core Revenue and Market Share by Heat Deflection Temperature (2021-2026)
 - 2.4.3.3 Global Aerospace PMI Foam Core Sale Price by Heat Deflection Temperature (2021-2026)
- 2.5 Aerospace PMI Foam Core Segment by Structural Parts
 - 2.5.1 Fuselage
 - 2.5.2 Wings
 - 2.5.3 Propeller Blades
 - 2.5.4 Other
 - 2.5.5 Aerospace PMI Foam Core Sales by Structural Parts
 - 2.5.5.1 Global Aerospace PMI Foam Core Sales Market Share by Structural Parts (2021-2026)
 - 2.5.5.2 Global Aerospace PMI Foam Core Revenue and Market Share by Structural Parts (2021-2026)
 - 2.5.5.3 Global Aerospace PMI Foam Core Sale Price by Structural Parts (2021-2026)
- 2.6 Aerospace PMI Foam Core Segment by Application
 - 2.6.1 Civilian Aircraft? Large Commercial Aircraft & Business Jets & Helicopters?
 - 2.6.2 Military Aircraft
 - 2.6.3 UAVs
 - 2.6.4 Flying Cars
 - 2.6.5 Aerospace
 - 2.6.6 Aerospace PMI Foam Core Sales by Application
 - 2.6.6.1 Global Aerospace PMI Foam Core Sale Market Share by Application (2021-2026)
 - 2.6.6.2 Global Aerospace PMI Foam Core Revenue and Market Share by Application (2021-2026)
 - 2.6.6.3 Global Aerospace PMI Foam Core Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Aerospace PMI Foam Core Breakdown Data by Company
 - 3.1.1 Global Aerospace PMI Foam Core Annual Sales by Company (2021-2026)
 - 3.1.2 Global Aerospace PMI Foam Core Sales Market Share by Company (2021-2026)

3.2 Global Aerospace PMI Foam Core Annual Revenue by Company (2021-2026)

3.2.1 Global Aerospace PMI Foam Core Revenue by Company (2021-2026)

3.2.2 Global Aerospace PMI Foam Core Revenue Market Share by Company (2021-2026)

3.3 Global Aerospace PMI Foam Core Sale Price by Company

3.4 Key Manufacturers Aerospace PMI Foam Core Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Aerospace PMI Foam Core Product Location Distribution

3.4.2 Players Aerospace PMI Foam Core Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR AEROSPACE PMI FOAM CORE BY GEOGRAPHIC REGION

4.1 World Historic Aerospace PMI Foam Core Market Size by Geographic Region (2021-2026)

4.1.1 Global Aerospace PMI Foam Core Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Aerospace PMI Foam Core Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Aerospace PMI Foam Core Market Size by Country/Region (2021-2026)

4.2.1 Global Aerospace PMI Foam Core Annual Sales by Country/Region (2021-2026)

4.2.2 Global Aerospace PMI Foam Core Annual Revenue by Country/Region (2021-2026)

4.3 Americas Aerospace PMI Foam Core Sales Growth

4.4 APAC Aerospace PMI Foam Core Sales Growth

4.5 Europe Aerospace PMI Foam Core Sales Growth

4.6 Middle East & Africa Aerospace PMI Foam Core Sales Growth

5 AMERICAS

5.1 Americas Aerospace PMI Foam Core Sales by Country

5.1.1 Americas Aerospace PMI Foam Core Sales by Country (2021-2026)

5.1.2 Americas Aerospace PMI Foam Core Revenue by Country (2021-2026)

5.2 Americas Aerospace PMI Foam Core Sales by Type (2021-2026)

5.3 Americas Aerospace PMI Foam Core Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Aerospace PMI Foam Core Sales by Region

6.1.1 APAC Aerospace PMI Foam Core Sales by Region (2021-2026)

6.1.2 APAC Aerospace PMI Foam Core Revenue by Region (2021-2026)

6.2 APAC Aerospace PMI Foam Core Sales by Type (2021-2026)

6.3 APAC Aerospace PMI Foam Core Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Aerospace PMI Foam Core by Country

7.1.1 Europe Aerospace PMI Foam Core Sales by Country (2021-2026)

7.1.2 Europe Aerospace PMI Foam Core Revenue by Country (2021-2026)

7.2 Europe Aerospace PMI Foam Core Sales by Type (2021-2026)

7.3 Europe Aerospace PMI Foam Core Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Aerospace PMI Foam Core by Country

8.1.1 Middle East & Africa Aerospace PMI Foam Core Sales by Country (2021-2026)

8.1.2 Middle East & Africa Aerospace PMI Foam Core Revenue by Country
(2021-2026)

8.2 Middle East & Africa Aerospace PMI Foam Core Sales by Type (2021-2026)

8.3 Middle East & Africa Aerospace PMI Foam Core Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Aerospace PMI Foam Core

10.3 Manufacturing Process Analysis of Aerospace PMI Foam Core

10.4 Industry Chain Structure of Aerospace PMI Foam Core

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Aerospace PMI Foam Core Distributors

11.3 Aerospace PMI Foam Core Customer

12 WORLD FORECAST REVIEW FOR AEROSPACE PMI FOAM CORE BY GEOGRAPHIC REGION

12.1 Global Aerospace PMI Foam Core Market Size Forecast by Region

12.1.1 Global Aerospace PMI Foam Core Forecast by Region (2027-2032)

12.1.2 Global Aerospace PMI Foam Core Annual Revenue Forecast by Region
(2027-2032)

12.2 Americas Forecast by Country (2027-2032)

- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Aerospace PMI Foam Core Forecast by Type (2027-2032)
- 12.7 Global Aerospace PMI Foam Core Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Evonik

- 13.1.1 Evonik Company Information
- 13.1.2 Evonik Aerospace PMI Foam Core Product Portfolios and Specifications
- 13.1.3 Evonik Aerospace PMI Foam Core Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Evonik Main Business Overview
- 13.1.5 Evonik Latest Developments

13.2 Cel Components srl

- 13.2.1 Cel Components srl Company Information
- 13.2.2 Cel Components srl Aerospace PMI Foam Core Product Portfolios and Specifications
- 13.2.3 Cel Components srl Aerospace PMI Foam Core Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Cel Components srl Main Business Overview
- 13.2.5 Cel Components srl Latest Developments

13.3 Future Composites Co., Ltd

- 13.3.1 Future Composites Co., Ltd Company Information
- 13.3.2 Future Composites Co., Ltd Aerospace PMI Foam Core Product Portfolios and Specifications
- 13.3.3 Future Composites Co., Ltd Aerospace PMI Foam Core Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Future Composites Co., Ltd Main Business Overview
- 13.3.5 Future Composites Co., Ltd Latest Developments

13.4 TOPOLO New Materials

- 13.4.1 TOPOLO New Materials Company Information
- 13.4.2 TOPOLO New Materials Aerospace PMI Foam Core Product Portfolios and Specifications
- 13.4.3 TOPOLO New Materials Aerospace PMI Foam Core Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.4.4 TOPOLO New Materials Main Business Overview
- 13.4.5 TOPOLO New Materials Latest Developments

13.5 Hunan Zihard Material Technology Co., Ltd.?Longhua Technology Group (Luoyang) Co., Ltd.?

13.5.1 Hunan Zihard Material Technology Co., Ltd.?Longhua Technology Group (Luoyang) Co., Ltd.? Company Information

13.5.2 Hunan Zihard Material Technology Co., Ltd.?Longhua Technology Group (Luoyang) Co., Ltd.? Aerospace PMI Foam Core Product Portfolios and Specifications

13.5.3 Hunan Zihard Material Technology Co., Ltd.?Longhua Technology Group (Luoyang) Co., Ltd.? Aerospace PMI Foam Core Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Hunan Zihard Material Technology Co., Ltd.?Longhua Technology Group (Luoyang) Co., Ltd.? Main Business Overview

13.5.5 Hunan Zihard Material Technology Co., Ltd.?Longhua Technology Group (Luoyang) Co., Ltd.? Latest Developments

13.6 Cashem Advanced Materials Hi-tech Co.,Ltd

13.6.1 Cashem Advanced Materials Hi-tech Co.,Ltd Company Information

13.6.2 Cashem Advanced Materials Hi-tech Co.,Ltd Aerospace PMI Foam Core Product Portfolios and Specifications

13.6.3 Cashem Advanced Materials Hi-tech Co.,Ltd Aerospace PMI Foam Core Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Cashem Advanced Materials Hi-tech Co.,Ltd Main Business Overview

13.6.5 Cashem Advanced Materials Hi-tech Co.,Ltd Latest Developments

13.7 Hybo FOAM

13.7.1 Hybo FOAM Company Information

13.7.2 Hybo FOAM Aerospace PMI Foam Core Product Portfolios and Specifications

13.7.3 Hybo FOAM Aerospace PMI Foam Core Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Hybo FOAM Main Business Overview

13.7.5 Hybo FOAM Latest Developments

13.8 Boom New Materials

13.8.1 Boom New Materials Company Information

13.8.2 Boom New Materials Aerospace PMI Foam Core Product Portfolios and Specifications

13.8.3 Boom New Materials Aerospace PMI Foam Core Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Boom New Materials Main Business Overview

13.8.5 Boom New Materials Latest Developments

13.9 ARCHCELL

13.9.1 ARCHCELL Company Information

13.9.2 ARCHCELL Aerospace PMI Foam Core Product Portfolios and Specifications

13.9.3 ARCHCELL Aerospace PMI Foam Core Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 ARCHCELL Main Business Overview

13.9.5 ARCHCELL Latest Developments

13.10 CNGR Advanced Material Co., Ltd.

13.10.1 CNGR Advanced Material Co., Ltd. Company Information

13.10.2 CNGR Advanced Material Co., Ltd. Aerospace PMI Foam Core Product Portfolios and Specifications

13.10.3 CNGR Advanced Material Co., Ltd. Aerospace PMI Foam Core Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 CNGR Advanced Material Co., Ltd. Main Business Overview

13.10.5 CNGR Advanced Material Co., Ltd. Latest Developments

13.11 Baoding Visight Advanced Material Technology Co., Ltd.

13.11.1 Baoding Visight Advanced Material Technology Co., Ltd. Company Information

13.11.2 Baoding Visight Advanced Material Technology Co., Ltd. Aerospace PMI Foam Core Product Portfolios and Specifications

13.11.3 Baoding Visight Advanced Material Technology Co., Ltd. Aerospace PMI Foam Core Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Baoding Visight Advanced Material Technology Co., Ltd. Main Business Overview

13.11.5 Baoding Visight Advanced Material Technology Co., Ltd. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Aerospace PMI Foam Core Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Aerospace PMI Foam Core Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Small Pores (Foam Pores & Low Viscosity)

Table 4. Major Players of Medium Pores (Foam Pores & Medium Viscosity)

Table 5. Major Players of Large Pores (Foam Pores & High Viscosity)

Table 6. Global Aerospace PMI Foam Core Sales by Type (2021-2026) & (K Cubic Meter)

Table 7. Global Aerospace PMI Foam Core Sales Market Share by Type (2021-2026)

Table 8. Global Aerospace PMI Foam Core Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Aerospace PMI Foam Core Revenue Market Share by Type (2021-2026)

Table 10. Global Aerospace PMI Foam Core Sale Price by Type (2021-2026) & (US\$/Cubic Meter)

Table 11. Major Players of 110 kg/m³

Table 15. Global Aerospace PMI Foam Core Sales by Density (kg/m³) (2021-2026) & (K Cubic Meter)

Table 16. Global Aerospace PMI Foam Core Sales Market Share by Density (kg/m³) (2021-2026)

Table 17. Global Aerospace PMI Foam Core Revenue by Density (kg/m³) (2021-2026) & (\$ million)

Table 18. Global Aerospace PMI Foam Core Revenue Market Share by Density (kg/m³) (2021-2026)

Table 19. Global Aerospace PMI Foam Core Sale Price by Density (kg/m³) (2021-2026) & (US\$/Cubic Meter)

Table 20. Major Players of High Temperature (200°C)

Table 21. Major Players of Ultra-high Temperature (240°C)

Table 22. Global Aerospace PMI Foam Core Sales by Heat Deflection Temperature (2021-2026) & (K Cubic Meter)

Table 23. Global Aerospace PMI Foam Core Sales Market Share by Heat Deflection Temperature (2021-2026)

Table 24. Global Aerospace PMI Foam Core Revenue by Heat Deflection Temperature (2021-2026) & (\$ million)

Table 25. Global Aerospace PMI Foam Core Revenue Market Share by Heat Deflection

Temperature (2021-2026)

Table 26. Global Aerospace PMI Foam Core Sale Price by Heat Deflection Temperature (2021-2026) & (US\$/Cubic Meter)

Table 27. Major Players of Fuselage

Table 28. Major Players of Wings

Table 29. Major Players of Propeller Blades

Table 30. Major Players of Other

Table 31. Global Aerospace PMI Foam Core Sales by Structural Parts (2021-2026) & (K Cubic Meter)

Table 32. Global Aerospace PMI Foam Core Sales Market Share by Structural Parts (2021-2026)

Table 33. Global Aerospace PMI Foam Core Revenue by Structural Parts (2021-2026) & (\$ million)

Table 34. Global Aerospace PMI Foam Core Revenue Market Share by Structural Parts (2021-2026)

Table 35. Global Aerospace PMI Foam Core Sale Price by Structural Parts (2021-2026) & (US\$/Cubic Meter)

Table 36. Global Aerospace PMI Foam Core Sale by Application (2021-2026) & (K Cubic Meter)

Table 37. Global Aerospace PMI Foam Core Sale Market Share by Application (2021-2026)

Table 38. Global Aerospace PMI Foam Core Revenue by Application (2021-2026) & (\$ million)

Table 39. Global Aerospace PMI Foam Core Revenue Market Share by Application (2021-2026)

Table 40. Global Aerospace PMI Foam Core Sale Price by Application (2021-2026) & (US\$/Cubic Meter)

Table 41. Global Aerospace PMI Foam Core Sales by Company (2021-2026) & (K Cubic Meter)

Table 42. Global Aerospace PMI Foam Core Sales Market Share by Company (2021-2026)

Table 43. Global Aerospace PMI Foam Core Revenue by Company (2021-2026) & (\$ millions)

Table 44. Global Aerospace PMI Foam Core Revenue Market Share by Company (2021-2026)

Table 45. Global Aerospace PMI Foam Core Sale Price by Company (2021-2026) & (US\$/Cubic Meter)

Table 46. Key Manufacturers Aerospace PMI Foam Core Producing Area Distribution and Sales Area

Table 47. Players Aerospace PMI Foam Core Products Offered

Table 48. Aerospace PMI Foam Core Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 49. New Products and Potential Entrants

Table 50. Market M&A Activity & Strategy

Table 51. Global Aerospace PMI Foam Core Sales by Geographic Region (2021-2026) & (K Cubic Meter)

Table 52. Global Aerospace PMI Foam Core Sales Market Share Geographic Region (2021-2026)

Table 53. Global Aerospace PMI Foam Core Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 54. Global Aerospace PMI Foam Core Revenue Market Share by Geographic Region (2021-2026)

Table 55. Global Aerospace PMI Foam Core Sales by Country/Region (2021-2026) & (K Cubic Meter)

Table 56. Global Aerospace PMI Foam Core Sales Market Share by Country/Region (2021-2026)

Table 57. Global Aerospace PMI Foam Core Revenue by Country/Region (2021-2026) & (\$ millions)

Table 58. Global Aerospace PMI Foam Core Revenue Market Share by Country/Region (2021-2026)

Table 59. Americas Aerospace PMI Foam Core Sales by Country (2021-2026) & (K Cubic Meter)

Table 60. Americas Aerospace PMI Foam Core Sales Market Share by Country (2021-2026)

Table 61. Americas Aerospace PMI Foam Core Revenue by Country (2021-2026) & (\$ millions)

Table 62. Americas Aerospace PMI Foam Core Sales by Type (2021-2026) & (K Cubic Meter)

Table 63. Americas Aerospace PMI Foam Core Sales by Application (2021-2026) & (K Cubic Meter)

Table 64. APAC Aerospace PMI Foam Core Sales by Region (2021-2026) & (K Cubic Meter)

Table 65. APAC Aerospace PMI Foam Core Sales Market Share by Region (2021-2026)

Table 66. APAC Aerospace PMI Foam Core Revenue by Region (2021-2026) & (\$ millions)

Table 67. APAC Aerospace PMI Foam Core Sales by Type (2021-2026) & (K Cubic Meter)

Table 68. APAC Aerospace PMI Foam Core Sales by Application (2021-2026) & (K Cubic Meter)

Table 69. Europe Aerospace PMI Foam Core Sales by Country (2021-2026) & (K Cubic Meter)

Table 70. Europe Aerospace PMI Foam Core Revenue by Country (2021-2026) & (\$ millions)

Table 71. Europe Aerospace PMI Foam Core Sales by Type (2021-2026) & (K Cubic Meter)

Table 72. Europe Aerospace PMI Foam Core Sales by Application (2021-2026) & (K Cubic Meter)

Table 73. Middle East & Africa Aerospace PMI Foam Core Sales by Country (2021-2026) & (K Cubic Meter)

Table 74. Middle East & Africa Aerospace PMI Foam Core Revenue Market Share by Country (2021-2026)

Table 75. Middle East & Africa Aerospace PMI Foam Core Sales by Type (2021-2026) & (K Cubic Meter)

Table 76. Middle East & Africa Aerospace PMI Foam Core Sales by Application (2021-2026) & (K Cubic Meter)

Table 77. Key Market Drivers & Growth Opportunities of Aerospace PMI Foam Core

Table 78. Key Market Challenges & Risks of Aerospace PMI Foam Core

Table 79. Key Industry Trends of Aerospace PMI Foam Core

Table 80. Aerospace PMI Foam Core Raw Material

Table 81. Key Suppliers of Raw Materials

Table 82. Aerospace PMI Foam Core Distributors List

Table 83. Aerospace PMI Foam Core Customer List

Table 84. Global Aerospace PMI Foam Core Sales Forecast by Region (2027-2032) & (K Cubic Meter)

Table 85. Global Aerospace PMI Foam Core Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 86. Americas Aerospace PMI Foam Core Sales Forecast by Country (2027-2032) & (K Cubic Meter)

Table 87. Americas Aerospace PMI Foam Core Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 88. APAC Aerospace PMI Foam Core Sales Forecast by Region (2027-2032) & (K Cubic Meter)

Table 89. APAC Aerospace PMI Foam Core Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 90. Europe Aerospace PMI Foam Core Sales Forecast by Country (2027-2032) & (K Cubic Meter)

Table 91. Europe Aerospace PMI Foam Core Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 92. Middle East & Africa Aerospace PMI Foam Core Sales Forecast by Country (2027-2032) & (K Cubic Meter)
Table 93. Middle East & Africa Aerospace PMI Foam Core Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 94. Global Aerospace PMI Foam Core Sales Forecast by Type (2027-2032) & (K Cubic Meter)
Table 95. Global Aerospace PMI Foam Core Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 96. Global Aerospace PMI Foam Core Sales Forecast by Application (2027-2032) & (K Cubic Meter)
Table 97. Global Aerospace PMI Foam Core Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 98. Evonik Basic Information, Aerospace PMI Foam Core Manufacturing Base, Sales Area and Its Competitors
Table 99. Evonik Aerospace PMI Foam Core Product Portfolios and Specifications
Table 100. Evonik Aerospace PMI Foam Core Sales (K Cubic Meter), Revenue (\$ Million), Price (US\$/Cubic Meter) and Gross Margin (2021-2026)
Table 101. Evonik Main Business
Table 102. Evonik Latest Developments
Table 103. Cel Components srl Basic Information, Aerospace PMI Foam Core Manufacturing Base, Sales Area and Its Competitors
Table 104. Cel Components srl Aerospace PMI Foam Core Product Portfolios and Specifications
Table 105. Cel Components srl Aerospace PMI Foam Core Sales (K Cubic Meter), Revenue (\$ Million), Price (US\$/Cubic Meter) and Gross Margin (2021-2026)
Table 106. Cel Components srl Main Business
Table 107. Cel Components srl Latest Developments
Table 108. Future Composites Co., Ltd Basic Information, Aerospace PMI Foam Core Manufacturing Base, Sales Area and Its Competitors
Table 109. Future Composites Co., Ltd Aerospace PMI Foam Core Product Portfolios and Specifications
Table 110. Future Composites Co., Ltd Aerospace PMI Foam Core Sales (K Cubic Meter), Revenue (\$ Million), Price (US\$/Cubic Meter) and Gross Margin (2021-2026)
Table 111. Future Composites Co., Ltd Main Business
Table 112. Future Composites Co., Ltd Latest Developments
Table 113. TOPOLO New Materials Basic Information, Aerospace PMI Foam Core Manufacturing Base, Sales Area and Its Competitors

Table 114. TOPOLO New Materials Aerospace PMI Foam Core Product Portfolios and Specifications

Table 115. TOPOLO New Materials Aerospace PMI Foam Core Sales (K Cubic Meter), Revenue (\$ Million), Price (US\$/Cubic Meter) and Gross Margin (2021-2026)

Table 116. TOPOLO New Materials Main Business

Table 117. TOPOLO New Materials Latest Developments

Table 118. Hunan Zihard Material Technology Co., Ltd.?Longhua Technology Group (Luoyang) Co., Ltd.? Basic Information, Aerospace PMI Foam Core Manufacturing Base, Sales Area and Its Competitors

Table 119. Hunan Zihard Material Technology Co., Ltd.?Longhua Technology Group (Luoyang) Co., Ltd.? Aerospace PMI Foam Core Product Portfolios and Specifications

Table 120. Hunan Zihard Material Technology Co., Ltd.?Longhua Technology Group (Luoyang) Co., Ltd.? Aerospace PMI Foam Core Sales (K Cubic Meter), Revenue (\$ Million), Price (US\$/Cubic Meter) and Gross Margin (2021-2026)

Table 121. Hunan Zihard Material Technology Co., Ltd.?Longhua Technology Group (Luoyang) Co., Ltd.? Main Business

Table 122. Hunan Zihard Material Technology Co., Ltd.?Longhua Technology Group (Luoyang) Co., Ltd.? Latest Developments

Table 123. Cashem Advanced Materials Hi-tech Co.,Ltd Basic Information, Aerospace PMI Foam Core Manufacturing Base, Sales Area and Its Competitors

Table 124. Cashem Advanced Materials Hi-tech Co.,Ltd Aerospace PMI Foam Core Product Portfolios and Specifications

Table 125. Cashem Advanced Materials Hi-tech Co.,Ltd Aerospace PMI Foam Core Sales (K Cubic Meter), Revenue (\$ Million), Price (US\$/Cubic Meter) and Gross Margin (2021-2026)

Table 126. Cashem Advanced Materials Hi-tech Co.,Ltd Main Business

Table 127. Cashem Advanced Materials Hi-tech Co.,Ltd Latest Developments

Table 128. Hybo FOAM Basic Information, Aerospace PMI Foam Core Manufacturing Base, Sales Area and Its Competitors

Table 129. Hybo FOAM Aerospace PMI Foam Core Product Portfolios and Specifications

Table 130. Hybo FOAM Aerospace PMI Foam Core Sales (K Cubic Meter), Revenue (\$ Million), Price (US\$/Cubic Meter) and Gross Margin (2021-2026)

Table 131. Hybo FOAM Main Business

Table 132. Hybo FOAM Latest Developments

Table 133. Boom New Materials Basic Information, Aerospace PMI Foam Core Manufacturing Base, Sales Area and Its Competitors

Table 134. Boom New Materials Aerospace PMI Foam Core Product Portfolios and Specifications

Table 135. Boom New Materials Aerospace PMI Foam Core Sales (K Cubic Meter), Revenue (\$ Million), Price (US\$/Cubic Meter) and Gross Margin (2021-2026)

Table 136. Boom New Materials Main Business

Table 137. Boom New Materials Latest Developments

Table 138. ARCHCELL Basic Information, Aerospace PMI Foam Core Manufacturing Base, Sales Area and Its Competitors

Table 139. ARCHCELL Aerospace PMI Foam Core Product Portfolios and Specifications

Table 140. ARCHCELL Aerospace PMI Foam Core Sales (K Cubic Meter), Revenue (\$ Million), Price (US\$/Cubic Meter) and Gross Margin (2021-2026)

Table 141. ARCHCELL Main Business

Table 142. ARCHCELL Latest Developments

Table 143. CNGR Advanced Material Co., Ltd. Basic Information, Aerospace PMI Foam Core Manufacturing Base, Sales Area and Its Competitors

Table 144. CNGR Advanced Material Co., Ltd. Aerospace PMI Foam Core Product Portfolios and Specifications

Table 145. CNGR Advanced Material Co., Ltd. Aerospace PMI Foam Core Sales (K Cubic Meter), Revenue (\$ Million), Price (US\$/Cubic Meter) and Gross Margin (2021-2026)

Table 146. CNGR Advanced Material Co., Ltd. Main Business

Table 147. CNGR Advanced Material Co., Ltd. Latest Developments

Table 148. Baoding Visight Advanced Material Technology Co., Ltd. Basic Information, Aerospace PMI Foam Core Manufacturing Base, Sales Area and Its Competitors

Table 149. Baoding Visight Advanced Material Technology Co., Ltd. Aerospace PMI Foam Core Product Portfolios and Specifications

Table 150. Baoding Visight Advanced Material Technology Co., Ltd. Aerospace PMI Foam Core Sales (K Cubic Meter), Revenue (\$ Million), Price (US\$/Cubic Meter) and Gross Margin (2021-2026)

Table 151. Baoding Visight Advanced Material Technology Co., Ltd. Main Business

Table 152. Baoding Visight Advanced Material Technology Co., Ltd. Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Aerospace PMI Foam Core

Figure 2. Aerospace PMI Foam Core Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Aerospace PMI Foam Core Sales Growth Rate 2021-2032 (K Cubic Meter)

Figure 7. Global Aerospace PMI Foam Core Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Aerospace PMI Foam Core Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Aerospace PMI Foam Core Sales Market Share by Country/Region (2025)

Figure 10. Aerospace PMI Foam Core Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Small Pores (Foam Pores & Low Viscosity)

Figure 12. Product Picture of Medium Pores (Foam Pores & Medium Viscosity)

Figure 13. Product Picture of Large Pores (Foam Pores & High Viscosity)

Figure 14. Global Aerospace PMI Foam Core Sales Market Share by Type in 2026

Figure 15. Global Aerospace PMI Foam Core Revenue Market Share by Type (2021-2026)

Figure 16. Product Picture of 110 kg/m³

Figure 20. Global Aerospace PMI Foam Core Sales Market Share by Density (kg/m³) in 2026

Figure 21. Global Aerospace PMI Foam Core Revenue Market Share by Density (kg/m³) (2021-2026)

Figure 22. Product Picture of High Temperature (200°C)

Figure 23. Product Picture of Ultra-high Temperature (240°C)

Figure 24. Global Aerospace PMI Foam Core Sales Market Share by Heat Deflection Temperature in 2026

Figure 25. Global Aerospace PMI Foam Core Revenue Market Share by Heat Deflection Temperature (2021-2026)

Figure 26. Product Picture of Fuselage

Figure 27. Product Picture of Wings

Figure 28. Product Picture of Propeller Blades

Figure 29. Product Picture of Other

Figure 30. Global Aerospace PMI Foam Core Sales Market Share by Structural Parts in 2026

Figure 31. Global Aerospace PMI Foam Core Revenue Market Share by Structural Parts (2021-2026)

Figure 32. Aerospace PMI Foam Core Consumed in Civilian Aircraft? Large Commercial Aircraft & Business Jets & Helicopters?

Figure 33. Global Aerospace PMI Foam Core Market: Civilian Aircraft? Large Commercial Aircraft & Business Jets & Helicopters? (2021-2026) & (K Cubic Meter)

Figure 34. Aerospace PMI Foam Core Consumed in Military Aircraft

Figure 35. Global Aerospace PMI Foam Core Market: Military Aircraft (2021-2026) & (K Cubic Meter)

Figure 36. Aerospace PMI Foam Core Consumed in UAVs

Figure 37. Global Aerospace PMI Foam Core Market: UAVs (2021-2026) & (K Cubic Meter)

Figure 38. Aerospace PMI Foam Core Consumed in Flying Cars

Figure 39. Global Aerospace PMI Foam Core Market: Flying Cars (2021-2026) & (K Cubic Meter)

Figure 40. Aerospace PMI Foam Core Consumed in Aerospace

Figure 41. Global Aerospace PMI Foam Core Market: Aerospace (2021-2026) & (K Cubic Meter)

Figure 42. Global Aerospace PMI Foam Core Sale Market Share by Application (2025)

Figure 43. Global Aerospace PMI Foam Core Revenue Market Share by Application in 2025

Figure 44. Aerospace PMI Foam Core Sales by Company in 2025 (K Cubic Meter)

Figure 45. Global Aerospace PMI Foam Core Sales Market Share by Company in 2025

Figure 46. Aerospace PMI Foam Core Revenue by Company in 2025 (\$ millions)

Figure 47. Global Aerospace PMI Foam Core Revenue Market Share by Company in 2025

Figure 48. Global Aerospace PMI Foam Core Sales Market Share by Geographic Region (2021-2026)

Figure 49. Global Aerospace PMI Foam Core Revenue Market Share by Geographic Region in 2025

Figure 50. Americas Aerospace PMI Foam Core Sales 2021-2026 (K Cubic Meter)

Figure 51. Americas Aerospace PMI Foam Core Revenue 2021-2026 (\$ millions)

Figure 52. APAC Aerospace PMI Foam Core Sales 2021-2026 (K Cubic Meter)

Figure 53. APAC Aerospace PMI Foam Core Revenue 2021-2026 (\$ millions)

Figure 54. Europe Aerospace PMI Foam Core Sales 2021-2026 (K Cubic Meter)

Figure 55. Europe Aerospace PMI Foam Core Revenue 2021-2026 (\$ millions)

Figure 56. Middle East & Africa Aerospace PMI Foam Core Sales 2021-2026 (K Cubic

Meter)

Figure 57. Middle East & Africa Aerospace PMI Foam Core Revenue 2021-2026 (\$ millions)

Figure 58. Americas Aerospace PMI Foam Core Sales Market Share by Country in 2025

Figure 59. Americas Aerospace PMI Foam Core Revenue Market Share by Country (2021-2026)

Figure 60. Americas Aerospace PMI Foam Core Sales Market Share by Type (2021-2026)

Figure 61. Americas Aerospace PMI Foam Core Sales Market Share by Application (2021-2026)

Figure 62. United States Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 63. Canada Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 64. Mexico Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 65. Brazil Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 66. APAC Aerospace PMI Foam Core Sales Market Share by Region in 2025

Figure 67. APAC Aerospace PMI Foam Core Revenue Market Share by Region (2021-2026)

Figure 68. APAC Aerospace PMI Foam Core Sales Market Share by Type (2021-2026)

Figure 69. APAC Aerospace PMI Foam Core Sales Market Share by Application (2021-2026)

Figure 70. China Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 71. Japan Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 72. South Korea Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 73. Southeast Asia Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 74. India Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 75. Australia Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 76. China Taiwan Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 77. Europe Aerospace PMI Foam Core Sales Market Share by Country in 2025

Figure 78. Europe Aerospace PMI Foam Core Revenue Market Share by Country (2021-2026)

Figure 79. Europe Aerospace PMI Foam Core Sales Market Share by Type (2021-2026)

Figure 80. Europe Aerospace PMI Foam Core Sales Market Share by Application

(2021-2026)

Figure 81. Germany Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 82. France Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 83. UK Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 84. Italy Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 85. Russia Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 86. Middle East & Africa Aerospace PMI Foam Core Sales Market Share by Country (2021-2026)

Figure 87. Middle East & Africa Aerospace PMI Foam Core Sales Market Share by Type (2021-2026)

Figure 88. Middle East & Africa Aerospace PMI Foam Core Sales Market Share by Application (2021-2026)

Figure 89. Egypt Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 90. South Africa Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 91. Israel Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 92. Turkey Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 93. GCC Countries Aerospace PMI Foam Core Revenue Growth 2021-2026 (\$ millions)

Figure 94. Manufacturing Cost Structure Analysis of Aerospace PMI Foam Core in 2026

Figure 95. Manufacturing Process Analysis of Aerospace PMI Foam Core

Figure 96. Industry Chain Structure of Aerospace PMI Foam Core

Figure 97. Channels of Distribution

Figure 98. Global Aerospace PMI Foam Core Sales Market Forecast by Region (2027-2032)

Figure 99. Global Aerospace PMI Foam Core Revenue Market Share Forecast by Region (2027-2032)

Figure 100. Global Aerospace PMI Foam Core Sales Market Share Forecast by Type (2027-2032)

Figure 101. Global Aerospace PMI Foam Core Revenue Market Share Forecast by Type (2027-2032)

Figure 102. Global Aerospace PMI Foam Core Sales Market Share Forecast by Application (2027-2032)

Figure 103. Global Aerospace PMI Foam Core Revenue Market Share Forecast by Application (2027-2032)

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