

Global Aerospace PMI Foam Core Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aerospace PMI Foam Core market size is expected to reach \$ 331 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

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 dominate 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).

This report studies the global Aerospace PMI Foam Core production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aerospace PMI Foam Core and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Aerospace PMI Foam Core that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aerospace PMI Foam Core total production and demand, 2021-2032, (K Cubic Meter)

Global Aerospace PMI Foam Core total production value, 2021-2032, (USD Million)

Global Aerospace PMI Foam Core production by region & country, production, value,

CAGR, 2021-2032, (USD Million) & (K Cubic Meter), (based on production site)
Global Aerospace PMI Foam Core consumption by region & country, CAGR, 2021-2032 & (K Cubic Meter)

U.S. VS China: Aerospace PMI Foam Core domestic production, consumption, key domestic manufacturers and share

Global Aerospace PMI Foam Core production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Cubic Meter)

Global Aerospace PMI Foam Core production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Cubic Meter)

Global Aerospace PMI Foam Core production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Cubic Meter)

This report profiles key players in the global Aerospace PMI Foam Core market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Aerospace PMI Foam Core market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Cubic Meter) and average price (US\$/Cubic Meter) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Aerospace PMI Foam Core Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aerospace PMI Foam Core Market, Segmentation by Type:

Small Pores (Foam Pores & Low Viscosity)

Medium Pores (Foam Pores & Medium Viscosity)

Large Pores (Foam Pores & High Viscosity)

Global Aerospace PMI Foam Core Market, Segmentation by Density (kg/m³):

110 kg/m³

Global Aerospace PMI Foam Core Market, Segmentation by Heat Deflection Temperature:

High Temperature (200°C)

Ultra-high Temperature (240°C)

Global Aerospace PMI Foam Core Market, Segmentation by Structural Parts:

Fuselage

Wings

Propeller Blades

Other

Global Aerospace PMI Foam Core Market, Segmentation by Application:

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

Military Aircraft

UAVs

Flying Cars

Aerospace

Companies Profiled:

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 Answered:

1. How big is the global Aerospace PMI Foam Core market?
2. What is the demand of the global Aerospace PMI Foam Core market?
3. What is the year over year growth of the global Aerospace PMI Foam Core market?
4. What is the production and production value of the global Aerospace PMI Foam Core market?
5. Who are the key producers in the global Aerospace PMI Foam Core market?
6. What are the growth factors driving the market demand?

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