

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

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Abstracts

The global Aerospace PMI Foam 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 production reached 261,830 cubic meters, with an average selling price of US\$714.28/cubic meter. Hybo FOAM has established a PMI foam production line with an annual capacity of 5,000 cubic meters. PMI foam, short for polymethacrylimide foam, is an ideal core material for high-performance, lightweight sandwich composites. Currently, PMI foam offers the highest strength and stiffness in heat-resistant plastics. Its widespread application stems from its ability to withstand diverse process environments and its excellent compatibility with various resin types. Carbon fiber composites using PMI foam as a core material offer advantages such as light weight, high flexural strength, excellent heat resistance, and impact resistance. Aerospace remains a key downstream market for PMI foam, with approximately 80% of PMI foam used internationally in aerospace applications. PMI structural foam materials (functional materials) and their products are essential components for the carbon fiber composites used in various types of civil and military aircraft, drones, and other aircraft (fusels, wings, blades, etc.). Aerospace PMI foam products have been widely used in aerospace and aviation, and we are the exclusive qualified domestic supplier to several domestic aircraft manufacturers. The rapid growth of the military industry in recent years has led to strong demand for lightweight composite materials for fighter jets, drones, and other applications, creating growth opportunities for domestic manufacturers. Currently, Evonik of Germany maintains a dominant position in the aerospace PMI foam market. Only a few Chinese manufacturers, such as 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 has led to a strong demand for lightweight composite materials for fighter jets, drones,

and other applications, creating growth opportunities for domestic manufacturers.

In the aerospace industry, composite components typically have a 'sandwich' structure, consisting of a skin and core. Currently, the three main types of composite core materials are honeycomb, rigid foam, and balsa wood. Honeycomb materials primarily include aluminum honeycomb and paper honeycomb. Rigid foams include PMI, PVC, PET, PU, and EPS. Balsa wood is primarily used for 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 foams. The pore surfaces of PMI foam are composed of true solid components, which increase the rigidity of the porous structure. In composite sandwich structures, PMI foam can serve as a structural unit. Currently, PMI is widely used in European and American aviation, with 80% of US military aircraft and 83% of Boeing and other civilian aircraft using PMI. In contrast, PMI usage in the Chinese aviation industry is only around 7%. This is primarily due to the significant technological gap 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).

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

This report is a detailed and comprehensive analysis of the world market for Aerospace PMI Foam 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 that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

Global Aerospace PMI Foam consumption by region & country, CAGR, 2021-2032 & (K Cubic Meter)

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

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

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

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

This report profiles key players in the global Aerospace PMI Foam 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 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 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

110 kg/m³

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

High Temperature (200°C)

Ultra-high Temperature (240°C)

Global Aerospace PMI Foam Market, Segmentation by Structural Parts:

Fuselage

Wings

Propeller Blades

Other

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

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