

Global Microcellular Aluminum Foam Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/GDFED46D131EEN.html>

Date: November 2025

Pages: 136

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

ID: GDFED46D131EEN

Abstracts

According to our (Global Info Research) latest study, the global Microcellular Aluminum Foam market size was valued at US\$ 1149 million in 2024 and is forecast to a readjusted size of USD 1710 million by 2031 with a CAGR of 5.8% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Microcellular Aluminum Foam is a lightweight metal material characterized by a uniform distribution of small, closed or open pores (typically 1–1000 μm) within an aluminum matrix. These foams combine the strength and conductivity of aluminum with the shock absorption and insulation properties of a foam, making them ideal for various high-performance applications.

Regional market distribution

China: The market size in 2023 accounts for about one-third of the world, and is expected to increase by nearly 50% in 2030, mainly benefiting from the demand for new energy vehicles, green buildings and aerospace.

North America and Europe: The combined share in 2023 exceeds 50%, but due to the impact of tariff policies, the growth rate will slow down in the future, and the share is expected to decline until 2030.

Southeast Asia: The export volume in 2025 increased by 240% year-on-year, becoming

an emerging growth pole, mainly used in scenarios such as photovoltaic bracket seismic isolation layer.

Core driving factors

New energy vehicles: Lightweight demand for battery pack shells, body structural parts, etc. drives the market size

Aerospace: The mass production of domestic large aircraft C919 drives demand

Building energy conservation: The upgrade of green building standards promotes the application of sound insulation and heat insulation materials

Technological innovation

New foaming processes (such as titanium hydride technology) increase the porosity to more than 85% and reduce energy consumption by 30%.

3D printing gradient pore structure materials achieve a breakthrough in compressive strength of 25MPa, promoting high-end applications

Risk factors

Raw material fluctuations: Aluminum prices fluctuated by 28% in 2024, causing gross profit margins of small and medium-sized enterprises to fluctuate by more than 10%.

Technical barriers: High-end products (such as aviation-grade closed-cell aluminum foam) rely on imports, with an import dependence of 40% in 2025, which may rise to 55% if R&D investment is insufficient.

Future outlook

Supply and demand balance: Demand is expected to be 420,000 tons in 2025 and supply is 380,000 tons. The gap depends on inventory adjustment, and the tight balance will continue until the mass production of new technologies in 2027.

Price trend: The price of aluminum foam for construction will drop from 48,000 yuan/ton in 2023 to 36,000 yuan/ton in 2025, while high-strength products for new energy vehicles will remain at a high level of 80,000-120,000 yuan/ton.

This report is a detailed and comprehensive analysis for global Microcellular Aluminum Foam 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 Microcellular Aluminum Foam market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2020-2031

Global Microcellular Aluminum Foam market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2020-2031

Global Microcellular Aluminum Foam market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2020-2031

Global Microcellular Aluminum Foam market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2020-2025

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 Microcellular Aluminum Foam
- 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 Microcellular Aluminum Foam 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 Shanxisino Academy Nano Materials, Lawrence Livermore National Laboratory (LLNL), Aeromet International, Nanorh, Foamtech, NanoShel, SmartFoam, Cymat Technologies, ERG Aerospace Corporation, Fraunhofer IFAM, etc.

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

Market Segmentation

Microcellular Aluminum Foam market is split by Type and by Application. For the period 2020-2031, 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

Open-Cell Foam

Closed-Cell Foam

Market segment by Application

Aerospace

Automotive

Construction

Electronic and Electronics

Energy

Defense and Military

Major players covered

Shanxisino Academy Nano Materials

Lawrence Livermore National Laboratory (LLNL)

Aeromet International

Nanorh

Foamtech

NanoShel

SmartFoam

Cymat Technologies

ERG Aerospace Corporation

Fraunhofer IFAM

Alusion

Versarien PLC

Havel Metal Foam

Alveotec

Shanxi Putai Aluminum Foam Manufacturing

Liaoning Rontec Advanced Material Technology

Hubei Zhongdou New Material Technology Co., Ltd.

Sichuan Yuantaida Non-ferrous Metals

Anhui Aoya Alloy Co., Ltd.

Neo-Found

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Microcellular Aluminum Foam product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Microcellular Aluminum Foam, with price, sales quantity, revenue, and global market share of Microcellular Aluminum Foam from 2020 to 2025.

Chapter 3, the Microcellular Aluminum Foam competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Microcellular Aluminum Foam breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020

to 2025.and Microcellular Aluminum Foam market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Microcellular Aluminum Foam.

Chapter 14 and 15, to describe Microcellular Aluminum Foam sales channel, distributors, customers, research findings and conclusion.

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