

Global Open-Celled Metallic Foam Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G5A3896FFEB9EN.html>

Date: December 2025

Pages: 116

Price: US\$ 4,480.00 (Single User License)

ID: G5A3896FFEB9EN

Abstracts

The global Open-Celled Metallic Foam market size is expected to reach \$ 1293 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

In 2025, global Open Cell Metal Foam production reached approximately 719,200 m³ with an average global market price of around US\$1,250 per m³. Single-line annual production capacity averages 13,000 m³ with a gross margin of approximately 19%. The upstream of the Open-Celled Metallic Foam industry primarily consists of metal raw materials such as aluminum, nickel, and copper, with aluminum and its alloys currently dominating commercial production as the absolute mainstream. Downstream applications are led by three major sectors: Automotive (30%-40%), Industrial (15%-25%), and Aerospace & Defense (15%-25%), which together account for approximately 70% to 80% of the market, while the remaining share is distributed among medical, construction, and other fields. Its core demand drivers and commercial opportunities lie in four key directions: the electrification of vehicles is fueling needs in areas like battery thermal management; the aerospace sector has an inherent demand for lightweight materials capable of withstanding extreme environments; industrial modernization is promoting applications in high-efficiency heat exchange and filtration; and the integration with additive manufacturing enables the customization of complex structures. These four pillars constitute the primary growth engines for the industry's current development.

Open-celled metallic foam is characterized by a three-dimensional, interconnected network of pores, where the solid material forms a continuous, tortuous skeleton surrounding voids that are fully open to one another. This architecture, distinct from closed-cell foams, ensures fluid permeability and creates an immense internal surface area relative to volume. The fundamental rationale for engineering such a structure lies in harnessing the unique combination of properties emerging from its geometric design.

It achieves a remarkable decoupling of characteristics typically linked in solid metals: it retains useful structural attributes like specific stiffness, energy absorption through cell-wall buckling, and dimensional stability at elevated temperatures, while simultaneously enabling multifunctional performance. The interconnected porosity allows for continuous fluid transport, facilitating convective heat transfer, uniform infiltration by secondary materials, or effective acoustic dissipation through viscous and thermal losses within the pore channels. This intrinsic duality transforms the material from a passive structural component into an active system. The foam can function as a compact heat exchanger with turbulent flow promotion, a lightweight electrode with high reactive surface area, a compliant damping medium with tailorable crush behavior, or a permeable scaffold for composite synthesis. The true essence of its design is the creation of a bulk metallic medium where mass transport, thermal, acoustic, and mechanical responses are not merely coexistent but are interdependent and can be co-optimized by tailoring pore morphology, strut geometry, and base material composition to engineer specific property suites unattainable by monolithic solids or traditional porous materials.

The future evolution of the Open-Celled Metallic Foam industry will be profoundly shaped by four core themes: design-oriented engineering, stratified manufacturing, material compositing, and green application integration. Its advancement will extend beyond merely enhancing porosity characteristics. Through generative design and AI-powered simulation, it will become possible to pre-engineer fluid pathways, stress networks, or electromagnetic wave structures within its three-dimensional interconnected lattice, transforming it from a generic material into a pre-functionalized component?spanning from biomimetic heat sinks to customized energy-absorbing structures?thus marking a shift from a versatile material to a dedicated application-specific solution. Manufacturing processes will evolve into a stratified system: at the macro scale, traditional methods like melt foaming will be optimized to precisely control pore size distribution and consistency for mass-produced items, meeting the cost and reliability demands of sectors such as automotive and construction; at the meso and micro scales, reliance on metal additive manufacturing technologies will enable the precise fabrication of complex lattices, gradient porosities, and even compositionally graded materials, providing aerospace and biomedical fields with ultra-lightweight, multifunctional integrated parts. The material portfolio will expand beyond the current dominance of aluminum to include extreme-environment substrates like titanium alloys and nickel-based superalloys. Furthermore, through surface coating, polymer impregnation, or ceramic compositing, novel multi-material composite foams will emerge, combining metallic toughness with catalytic activity or bioactivity to suit new applications such as high-temperature catalysis or human implants. Ultimately, its application growth will be closely tied to sustainable development, serving as a key

efficiency-enabling component in green energy sectors like hydrogen storage/transport, battery thermal management, and industrial waste heat recovery. Leveraging its high surface area and permeability, it will also see scaled deployment in environmental engineering applications such as noise control and wastewater treatment. This trajectory signifies its complete transformation from an advanced porous material into a core engineering medium that is systematically designed, manufactured on-demand, and deeply integrated to enable advanced manufacturing and the circular economy. This report studies the global Open-Celled Metallic Foam production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Open-Celled Metallic Foam total production and demand, 2021-2032, (K Cubic Meter)

Global Open-Celled Metallic Foam total production value, 2021-2032, (USD Million)

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

Global Open-Celled Metallic Foam consumption by region & country, CAGR, 2021-2032 & (K Cubic Meter)

U.S. VS China: Open-Celled Metallic Foam domestic production, consumption, key domestic manufacturers and share

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

Global Open-Celled Metallic Foam production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Cubic Meter)

Global Open-Celled Metallic Foam production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Cubic Meter)

This report profiles key players in the global Open-Celled Metallic 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 Ultramet, Havel Metal Foam, BOEGGER, Recemat, Intergran Technologies, Hollomet GmbH, ERG Aerospace, Exxentis, Fraunhofer IFAM, Reade Advanced Materials, 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 Open-Celled Metallic 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 Open-Celled Metallic Foam Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Open-Celled Metallic Foam Market, Segmentation by Type:

Aluminum

Copper

Titanium

Nickel

Others

Global Open-Celled Metallic Foam Market, Segmentation by Foam Quality:

High Density

Low Density

Global Open-Celled Metallic Foam Market, Segmentation by Fabrication Process:

Casting Method

Deposition Method

Powder Metallurgy (Sintering) Method

Global Open-Celled Metallic Foam Market, Segmentation by Application:

Architecture

Automobile

Aerospace

Others

Companies Profiled:

Ultramet

Havel Metal Foam

BOEGGER

Recemat

Intergran Technologies

Hollomet GmbH

ERG Aerospace

Exxentis

Fraunhofer IFAM

Reade Advanced Materials

Apheros

HGP

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Open-Celled Metallic Foam Introduction
- 1.2 World Open-Celled Metallic Foam Supply & Forecast
 - 1.2.1 World Open-Celled Metallic Foam Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Open-Celled Metallic Foam Production (2021-2032)
 - 1.2.3 World Open-Celled Metallic Foam Pricing Trends (2021-2032)
- 1.3 World Open-Celled Metallic Foam Production by Region (Based on Production Site)
 - 1.3.1 World Open-Celled Metallic Foam Production Value by Region (2021-2032)
 - 1.3.2 World Open-Celled Metallic Foam Production by Region (2021-2032)
 - 1.3.3 World Open-Celled Metallic Foam Average Price by Region (2021-2032)
 - 1.3.4 North America Open-Celled Metallic Foam Production (2021-2032)
 - 1.3.5 Europe Open-Celled Metallic Foam Production (2021-2032)
 - 1.3.6 China Open-Celled Metallic Foam Production (2021-2032)
 - 1.3.7 Japan Open-Celled Metallic Foam Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Open-Celled Metallic Foam Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Open-Celled Metallic Foam Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Open-Celled Metallic Foam Demand (2021-2032)
- 2.2 World Open-Celled Metallic Foam Consumption by Region
 - 2.2.1 World Open-Celled Metallic Foam Consumption by Region (2021-2026)
 - 2.2.2 World Open-Celled Metallic Foam Consumption Forecast by Region (2027-2032)
- 2.3 United States Open-Celled Metallic Foam Consumption (2021-2032)
- 2.4 China Open-Celled Metallic Foam Consumption (2021-2032)
- 2.5 Europe Open-Celled Metallic Foam Consumption (2021-2032)
- 2.6 Japan Open-Celled Metallic Foam Consumption (2021-2032)
- 2.7 South Korea Open-Celled Metallic Foam Consumption (2021-2032)
- 2.8 ASEAN Open-Celled Metallic Foam Consumption (2021-2032)
- 2.9 India Open-Celled Metallic Foam Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Open-Celled Metallic Foam Production Value by Manufacturer (2021-2026)

- 3.2 World Open-Celled Metallic Foam Production by Manufacturer (2021-2026)
- 3.3 World Open-Celled Metallic Foam Average Price by Manufacturer (2021-2026)
- 3.4 Open-Celled Metallic Foam Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Open-Celled Metallic Foam Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Open-Celled Metallic Foam in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Open-Celled Metallic Foam in 2025
- 3.6 Open-Celled Metallic Foam Market: Overall Company Footprint Analysis
 - 3.6.1 Open-Celled Metallic Foam Market: Region Footprint
 - 3.6.2 Open-Celled Metallic Foam Market: Company Product Type Footprint
 - 3.6.3 Open-Celled Metallic Foam Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Open-Celled Metallic Foam Production Value Comparison
 - 4.1.1 United States VS China: Open-Celled Metallic Foam Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Open-Celled Metallic Foam Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Open-Celled Metallic Foam Production Comparison
 - 4.2.1 United States VS China: Open-Celled Metallic Foam Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Open-Celled Metallic Foam Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Open-Celled Metallic Foam Consumption Comparison
 - 4.3.1 United States VS China: Open-Celled Metallic Foam Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Open-Celled Metallic Foam Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Open-Celled Metallic Foam Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Open-Celled Metallic Foam Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Open-Celled Metallic Foam Production Value (2021-2026)

4.4.3 United States Based Manufacturers Open-Celled Metallic Foam Production (2021-2026)

4.5 China Based Open-Celled Metallic Foam Manufacturers and Market Share

4.5.1 China Based Open-Celled Metallic Foam Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Open-Celled Metallic Foam Production Value (2021-2026)

4.5.3 China Based Manufacturers Open-Celled Metallic Foam Production (2021-2026)

4.6 Rest of World Based Open-Celled Metallic Foam Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Open-Celled Metallic Foam Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Open-Celled Metallic Foam Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Open-Celled Metallic Foam Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Open-Celled Metallic Foam Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Aluminum

5.2.2 Copper

5.2.3 Titanium

5.2.4 Nickel

5.2.5 Others

5.3 Market Segment by Type

5.3.1 World Open-Celled Metallic Foam Production by Type (2021-2032)

5.3.2 World Open-Celled Metallic Foam Production Value by Type (2021-2032)

5.3.3 World Open-Celled Metallic Foam Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FOAM QUALITY

6.1 World Open-Celled Metallic Foam Market Size Overview by Foam Quality: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Foam Quality

6.2.1 High Density

6.2.2 Low Density

6.3 Market Segment by Foam Quality

6.3.1 World Open-Celled Metallic Foam Production by Foam Quality (2021-2032)

6.3.2 World Open-Celled Metallic Foam Production Value by Foam Quality (2021-2032)

6.3.3 World Open-Celled Metallic Foam Average Price by Foam Quality (2021-2032)

7 MARKET ANALYSIS BY FABRICATION PROCESS

7.1 World Open-Celled Metallic Foam Market Size Overview by Fabrication Process: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Fabrication Process

7.2.1 Casting Method

7.2.2 Deposition Method

7.2.3 Powder Metallurgy (Sintering) Method

7.3 Market Segment by Fabrication Process

7.3.1 World Open-Celled Metallic Foam Production by Fabrication Process (2021-2032)

7.3.2 World Open-Celled Metallic Foam Production Value by Fabrication Process (2021-2032)

7.3.3 World Open-Celled Metallic Foam Average Price by Fabrication Process (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Open-Celled Metallic Foam Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Architecture

8.2.2 Automobile

8.2.3 Aerospace

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Open-Celled Metallic Foam Production by Application (2021-2032)

8.3.2 World Open-Celled Metallic Foam Production Value by Application (2021-2032)

8.3.3 World Open-Celled Metallic Foam Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Ultramet

9.1.1 Ultramet Details

9.1.2 Ultramet Major Business

9.1.3 Ultramet Open-Celled Metallic Foam Product and Services

9.1.4 Ultramet Open-Celled Metallic Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Ultramet Recent Developments/Updates

9.1.6 Ultramet Competitive Strengths & Weaknesses

9.2 Havel Metal Foam

9.2.1 Havel Metal Foam Details

9.2.2 Havel Metal Foam Major Business

9.2.3 Havel Metal Foam Open-Celled Metallic Foam Product and Services

9.2.4 Havel Metal Foam Open-Celled Metallic Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Havel Metal Foam Recent Developments/Updates

9.2.6 Havel Metal Foam Competitive Strengths & Weaknesses

9.3 BOEGGER

9.3.1 BOEGGER Details

9.3.2 BOEGGER Major Business

9.3.3 BOEGGER Open-Celled Metallic Foam Product and Services

9.3.4 BOEGGER Open-Celled Metallic Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 BOEGGER Recent Developments/Updates

9.3.6 BOEGGER Competitive Strengths & Weaknesses

9.4 Recemat

9.4.1 Recemat Details

9.4.2 Recemat Major Business

9.4.3 Recemat Open-Celled Metallic Foam Product and Services

9.4.4 Recemat Open-Celled Metallic Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Recemat Recent Developments/Updates

9.4.6 Recemat Competitive Strengths & Weaknesses

9.5 Intergran Technologies

9.5.1 Intergran Technologies Details

9.5.2 Intergran Technologies Major Business

9.5.3 Intergran Technologies Open-Celled Metallic Foam Product and Services

9.5.4 Intergran Technologies Open-Celled Metallic Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.5.5 Intergran Technologies Recent Developments/Updates
- 9.5.6 Intergran Technologies Competitive Strengths & Weaknesses
- 9.6 Hollomet GmbH
 - 9.6.1 Hollomet GmbH Details
 - 9.6.2 Hollomet GmbH Major Business
 - 9.6.3 Hollomet GmbH Open-Celled Metallic Foam Product and Services
 - 9.6.4 Hollomet GmbH Open-Celled Metallic Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Hollomet GmbH Recent Developments/Updates
 - 9.6.6 Hollomet GmbH Competitive Strengths & Weaknesses
- 9.7 ERG Aerospace
 - 9.7.1 ERG Aerospace Details
 - 9.7.2 ERG Aerospace Major Business
 - 9.7.3 ERG Aerospace Open-Celled Metallic Foam Product and Services
 - 9.7.4 ERG Aerospace Open-Celled Metallic Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 ERG Aerospace Recent Developments/Updates
 - 9.7.6 ERG Aerospace Competitive Strengths & Weaknesses
- 9.8 Exxentis
 - 9.8.1 Exxentis Details
 - 9.8.2 Exxentis Major Business
 - 9.8.3 Exxentis Open-Celled Metallic Foam Product and Services
 - 9.8.4 Exxentis Open-Celled Metallic Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Exxentis Recent Developments/Updates
 - 9.8.6 Exxentis Competitive Strengths & Weaknesses
- 9.9 Fraunhofer IFAM
 - 9.9.1 Fraunhofer IFAM Details
 - 9.9.2 Fraunhofer IFAM Major Business
 - 9.9.3 Fraunhofer IFAM Open-Celled Metallic Foam Product and Services
 - 9.9.4 Fraunhofer IFAM Open-Celled Metallic Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Fraunhofer IFAM Recent Developments/Updates
 - 9.9.6 Fraunhofer IFAM Competitive Strengths & Weaknesses
- 9.10 Reade Advanced Materials
 - 9.10.1 Reade Advanced Materials Details
 - 9.10.2 Reade Advanced Materials Major Business
 - 9.10.3 Reade Advanced Materials Open-Celled Metallic Foam Product and Services
 - 9.10.4 Reade Advanced Materials Open-Celled Metallic Foam Production, Price,

Value, Gross Margin and Market Share (2021-2026)

9.10.5 Reade Advanced Materials Recent Developments/Updates

9.10.6 Reade Advanced Materials Competitive Strengths & Weaknesses

9.11 Apheros

9.11.1 Apheros Details

9.11.2 Apheros Major Business

9.11.3 Apheros Open-Celled Metallic Foam Product and Services

9.11.4 Apheros Open-Celled Metallic Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Apheros Recent Developments/Updates

9.11.6 Apheros Competitive Strengths & Weaknesses

9.12 HGP

9.12.1 HGP Details

9.12.2 HGP Major Business

9.12.3 HGP Open-Celled Metallic Foam Product and Services

9.12.4 HGP Open-Celled Metallic Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 HGP Recent Developments/Updates

9.12.6 HGP Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Open-Celled Metallic Foam Industry Chain

10.2 Open-Celled Metallic Foam Upstream Analysis

10.2.1 Open-Celled Metallic Foam Core Raw Materials

10.2.2 Main Manufacturers of Open-Celled Metallic Foam Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Open-Celled Metallic Foam Production Mode

10.6 Open-Celled Metallic Foam Procurement Model

10.7 Open-Celled Metallic Foam Industry Sales Model and Sales Channels

10.7.1 Open-Celled Metallic Foam Sales Model

10.7.2 Open-Celled Metallic Foam Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Open-Celled Metallic Foam Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Open-Celled Metallic Foam Production Value by Region (2021-2026) & (USD Million)

Table 3. World Open-Celled Metallic Foam Production Value by Region (2027-2032) & (USD Million)

Table 4. World Open-Celled Metallic Foam Production Value Market Share by Region (2021-2026)

Table 5. World Open-Celled Metallic Foam Production Value Market Share by Region (2027-2032)

Table 6. World Open-Celled Metallic Foam Production by Region (2021-2026) & (K Cubic Meter)

Table 7. World Open-Celled Metallic Foam Production by Region (2027-2032) & (K Cubic Meter)

Table 8. World Open-Celled Metallic Foam Production Market Share by Region (2021-2026)

Table 9. World Open-Celled Metallic Foam Production Market Share by Region (2027-2032)

Table 10. World Open-Celled Metallic Foam Average Price by Region (2021-2026) & (US\$/Cubic Meter)

Table 11. World Open-Celled Metallic Foam Average Price by Region (2027-2032) & (US\$/Cubic Meter)

Table 12. Open-Celled Metallic Foam Major Market Trends

Table 13. World Open-Celled Metallic Foam Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Cubic Meter)

Table 14. World Open-Celled Metallic Foam Consumption by Region (2021-2026) & (K Cubic Meter)

Table 15. World Open-Celled Metallic Foam Consumption Forecast by Region (2027-2032) & (K Cubic Meter)

Table 16. World Open-Celled Metallic Foam Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Open-Celled Metallic Foam Producers in 2025

Table 18. World Open-Celled Metallic Foam Production by Manufacturer (2021-2026) & (K Cubic Meter)

Table 19. Production Market Share of Key Open-Celled Metallic Foam Producers in 2025

Table 20. World Open-Celled Metallic Foam Average Price by Manufacturer (2021-2026) & (US\$/Cubic Meter)

Table 21. Global Open-Celled Metallic Foam Company Evaluation Quadrant

Table 22. World Open-Celled Metallic Foam Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Open-Celled Metallic Foam Production Site of Key Manufacturer

Table 24. Open-Celled Metallic Foam Market: Company Product Type Footprint

Table 25. Open-Celled Metallic Foam Market: Company Product Application Footprint

Table 26. Open-Celled Metallic Foam Competitive Factors

Table 27. Open-Celled Metallic Foam New Entrant and Capacity Expansion Plans

Table 28. Open-Celled Metallic Foam Mergers & Acquisitions Activity

Table 29. United States VS China Open-Celled Metallic Foam Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Open-Celled Metallic Foam Production Comparison, (2021 & 2025 & 2032) & (K Cubic Meter)

Table 31. United States VS China Open-Celled Metallic Foam Consumption Comparison, (2021 & 2025 & 2032) & (K Cubic Meter)

Table 32. United States Based Open-Celled Metallic Foam Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Open-Celled Metallic Foam Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Open-Celled Metallic Foam Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Open-Celled Metallic Foam Production (2021-2026) & (K Cubic Meter)

Table 36. United States Based Manufacturers Open-Celled Metallic Foam Production Market Share (2021-2026)

Table 37. China Based Open-Celled Metallic Foam Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Open-Celled Metallic Foam Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Open-Celled Metallic Foam Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Open-Celled Metallic Foam Production, (2021-2026) & (K Cubic Meter)

Table 41. China Based Manufacturers Open-Celled Metallic Foam Production Market

Share (2021-2026)

Table 42. Rest of World Based Open-Celled Metallic Foam Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Open-Celled Metallic Foam Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Open-Celled Metallic Foam Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Open-Celled Metallic Foam Production, (2021-2026) & (K Cubic Meter)

Table 46. Rest of World Based Manufacturers Open-Celled Metallic Foam Production Market Share (2021-2026)

Table 47. World Open-Celled Metallic Foam Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Open-Celled Metallic Foam Production by Type (2021-2026) & (K Cubic Meter)

Table 49. World Open-Celled Metallic Foam Production by Type (2027-2032) & (K Cubic Meter)

Table 50. World Open-Celled Metallic Foam Production Value by Type (2021-2026) & (USD Million)

Table 51. World Open-Celled Metallic Foam Production Value by Type (2027-2032) & (USD Million)

Table 52. World Open-Celled Metallic Foam Average Price by Type (2021-2026) & (US\$/Cubic Meter)

Table 53. World Open-Celled Metallic Foam Average Price by Type (2027-2032) & (US\$/Cubic Meter)

Table 54. World Open-Celled Metallic Foam Production Value by Foam Quality, (USD Million), 2021 & 2025 & 2032

Table 55. World Open-Celled Metallic Foam Production by Foam Quality (2021-2026) & (K Cubic Meter)

Table 56. World Open-Celled Metallic Foam Production by Foam Quality (2027-2032) & (K Cubic Meter)

Table 57. World Open-Celled Metallic Foam Production Value by Foam Quality (2021-2026) & (USD Million)

Table 58. World Open-Celled Metallic Foam Production Value by Foam Quality (2027-2032) & (USD Million)

Table 59. World Open-Celled Metallic Foam Average Price by Foam Quality (2021-2026) & (US\$/Cubic Meter)

Table 60. World Open-Celled Metallic Foam Average Price by Foam Quality (2027-2032) & (US\$/Cubic Meter)

Table 61. World Open-Celled Metallic Foam Production Value by Fabrication Process, (USD Million), 2021 & 2025 & 2032

Table 62. World Open-Celled Metallic Foam Production by Fabrication Process (2021-2026) & (K Cubic Meter)

Table 63. World Open-Celled Metallic Foam Production by Fabrication Process (2027-2032) & (K Cubic Meter)

Table 64. World Open-Celled Metallic Foam Production Value by Fabrication Process (2021-2026) & (USD Million)

Table 65. World Open-Celled Metallic Foam Production Value by Fabrication Process (2027-2032) & (USD Million)

Table 66. World Open-Celled Metallic Foam Average Price by Fabrication Process (2021-2026) & (US\$/Cubic Meter)

Table 67. World Open-Celled Metallic Foam Average Price by Fabrication Process (2027-2032) & (US\$/Cubic Meter)

Table 68. World Open-Celled Metallic Foam Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Open-Celled Metallic Foam Production by Application (2021-2026) & (K Cubic Meter)

Table 70. World Open-Celled Metallic Foam Production by Application (2027-2032) & (K Cubic Meter)

Table 71. World Open-Celled Metallic Foam Production Value by Application (2021-2026) & (USD Million)

Table 72. World Open-Celled Metallic Foam Production Value by Application (2027-2032) & (USD Million)

Table 73. World Open-Celled Metallic Foam Average Price by Application (2021-2026) & (US\$/Cubic Meter)

Table 74. World Open-Celled Metallic Foam Average Price by Application (2027-2032) & (US\$/Cubic Meter)

Table 75. Ultramet Basic Information, Manufacturing Base and Competitors

Table 76. Ultramet Major Business

Table 77. Ultramet Open-Celled Metallic Foam Product and Services

Table 78. Ultramet Open-Celled Metallic Foam Production (K Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Ultramet Recent Developments/Updates

Table 80. Ultramet Competitive Strengths & Weaknesses

Table 81. Havel Metal Foam Basic Information, Manufacturing Base and Competitors

Table 82. Havel Metal Foam Major Business

Table 83. Havel Metal Foam Open-Celled Metallic Foam Product and Services

Table 84. Havel Metal Foam Open-Celled Metallic Foam Production (K Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Havel Metal Foam Recent Developments/Updates

Table 86. Havel Metal Foam Competitive Strengths & Weaknesses

Table 87. BOEGGER Basic Information, Manufacturing Base and Competitors

Table 88. BOEGGER Major Business

Table 89. BOEGGER Open-Celled Metallic Foam Product and Services

Table 90. BOEGGER Open-Celled Metallic Foam Production (K Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. BOEGGER Recent Developments/Updates

Table 92. BOEGGER Competitive Strengths & Weaknesses

Table 93. Recemat Basic Information, Manufacturing Base and Competitors

Table 94. Recemat Major Business

Table 95. Recemat Open-Celled Metallic Foam Product and Services

Table 96. Recemat Open-Celled Metallic Foam Production (K Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Recemat Recent Developments/Updates

Table 98. Recemat Competitive Strengths & Weaknesses

Table 99. Intergran Technologies Basic Information, Manufacturing Base and Competitors

Table 100. Intergran Technologies Major Business

Table 101. Intergran Technologies Open-Celled Metallic Foam Product and Services

Table 102. Intergran Technologies Open-Celled Metallic Foam Production (K Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Intergran Technologies Recent Developments/Updates

Table 104. Intergran Technologies Competitive Strengths & Weaknesses

Table 105. Hollomet GmbH Basic Information, Manufacturing Base and Competitors

Table 106. Hollomet GmbH Major Business

Table 107. Hollomet GmbH Open-Celled Metallic Foam Product and Services

Table 108. Hollomet GmbH Open-Celled Metallic Foam Production (K Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Hollomet GmbH Recent Developments/Updates

Table 110. Hollomet GmbH Competitive Strengths & Weaknesses

Table 111. ERG Aerospace Basic Information, Manufacturing Base and Competitors

Table 112. ERG Aerospace Major Business

Table 113. ERG Aerospace Open-Celled Metallic Foam Product and Services

Table 114. ERG Aerospace Open-Celled Metallic Foam Production (K Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. ERG Aerospace Recent Developments/Updates

Table 116. ERG Aerospace Competitive Strengths & Weaknesses

Table 117. Exxentis Basic Information, Manufacturing Base and Competitors

Table 118. Exxentis Major Business

Table 119. Exxentis Open-Celled Metallic Foam Product and Services

Table 120. Exxentis Open-Celled Metallic Foam Production (K Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Exxentis Recent Developments/Updates

Table 122. Exxentis Competitive Strengths & Weaknesses

Table 123. Fraunhofer IFAM Basic Information, Manufacturing Base and Competitors

Table 124. Fraunhofer IFAM Major Business

Table 125. Fraunhofer IFAM Open-Celled Metallic Foam Product and Services

Table 126. Fraunhofer IFAM Open-Celled Metallic Foam Production (K Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Fraunhofer IFAM Recent Developments/Updates

Table 128. Fraunhofer IFAM Competitive Strengths & Weaknesses

Table 129. Reade Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 130. Reade Advanced Materials Major Business

Table 131. Reade Advanced Materials Open-Celled Metallic Foam Product and Services

Table 132. Reade Advanced Materials Open-Celled Metallic Foam Production (K Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Reade Advanced Materials Recent Developments/Updates

Table 134. Reade Advanced Materials Competitive Strengths & Weaknesses

Table 135. Atheros Basic Information, Manufacturing Base and Competitors

Table 136. Atheros Major Business

Table 137. Atheros Open-Celled Metallic Foam Product and Services

Table 138. Atheros Open-Celled Metallic Foam Production (K Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 139. Apheros Recent Developments/Updates
- Table 140. Apheros Competitive Strengths & Weaknesses
- Table 141. HGP Basic Information, Manufacturing Base and Competitors
- Table 142. HGP Major Business
- Table 143. HGP Open-Celled Metallic Foam Product and Services
- Table 144. HGP Open-Celled Metallic Foam Production (K Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. HGP Recent Developments/Updates
- Table 146. HGP Competitive Strengths & Weaknesses
- Table 147. Global Key Players of Open-Celled Metallic Foam Upstream (Raw Materials)
- Table 148. Global Open-Celled Metallic Foam Typical Customers
- Table 149. Open-Celled Metallic Foam Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Open-Celled Metallic Foam Picture

Figure 2. World Open-Celled Metallic Foam Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Open-Celled Metallic Foam Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Open-Celled Metallic Foam Production (2021-2032) & (K Cubic Meter)

Figure 5. World Open-Celled Metallic Foam Average Price (2021-2032) & (US\$/Cubic Meter)

Figure 6. World Open-Celled Metallic Foam Production Value Market Share by Region (2021-2032)

Figure 7. World Open-Celled Metallic Foam Production Market Share by Region (2021-2032)

Figure 8. North America Open-Celled Metallic Foam Production (2021-2032) & (K Cubic Meter)

Figure 9. Europe Open-Celled Metallic Foam Production (2021-2032) & (K Cubic Meter)

Figure 10. China Open-Celled Metallic Foam Production (2021-2032) & (K Cubic Meter)

Figure 11. Japan Open-Celled Metallic Foam Production (2021-2032) & (K Cubic Meter)

Figure 12. Open-Celled Metallic Foam Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Open-Celled Metallic Foam Consumption (2021-2032) & (K Cubic Meter)

Figure 15. World Open-Celled Metallic Foam Consumption Market Share by Region (2021-2032)

Figure 16. United States Open-Celled Metallic Foam Consumption (2021-2032) & (K Cubic Meter)

Figure 17. China Open-Celled Metallic Foam Consumption (2021-2032) & (K Cubic Meter)

Figure 18. Europe Open-Celled Metallic Foam Consumption (2021-2032) & (K Cubic Meter)

Figure 19. Japan Open-Celled Metallic Foam Consumption (2021-2032) & (K Cubic Meter)

Figure 20. South Korea Open-Celled Metallic Foam Consumption (2021-2032) & (K Cubic Meter)

Figure 21. ASEAN Open-Celled Metallic Foam Consumption (2021-2032) & (K Cubic Meter)

Figure 22. India Open-Celled Metallic Foam Consumption (2021-2032) & (K Cubic Meter)

Figure 23. Producer Shipments of Open-Celled Metallic Foam by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Open-Celled Metallic Foam Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Open-Celled Metallic Foam Markets in 2025

Figure 26. United States VS China: Open-Celled Metallic Foam Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Open-Celled Metallic Foam Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Open-Celled Metallic Foam Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Open-Celled Metallic Foam Production Market Share 2025

Figure 30. China Based Manufacturers Open-Celled Metallic Foam Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Open-Celled Metallic Foam Production Market Share 2025

Figure 32. World Open-Celled Metallic Foam Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Open-Celled Metallic Foam Production Value Market Share by Type in 2025

Figure 34. Aluminum

Figure 35. Copper

Figure 36. Titanium

Figure 37. Nickel

Figure 38. Others

Figure 39. World Open-Celled Metallic Foam Production Market Share by Type (2021-2032)

Figure 40. World Open-Celled Metallic Foam Production Value Market Share by Type (2021-2032)

Figure 41. World Open-Celled Metallic Foam Average Price by Type (2021-2032) & (US\$/Cubic Meter)

Figure 42. World Open-Celled Metallic Foam Production Value by Foam Quality, (USD Million), 2021 & 2025 & 2032

Figure 43. World Open-Celled Metallic Foam Production Value Market Share by Foam Quality in 2025

Figure 44. High Density

Figure 45. Low Density

Figure 46. World Open-Celled Metallic Foam Production Market Share by Foam Quality (2021-2032)

Figure 47. World Open-Celled Metallic Foam Production Value Market Share by Foam Quality (2021-2032)

Figure 48. World Open-Celled Metallic Foam Average Price by Foam Quality (2021-2032) & (US\$/Cubic Meter)

Figure 49. World Open-Celled Metallic Foam Production Value by Fabrication Process, (USD Million), 2021 & 2025 & 2032

Figure 50. World Open-Celled Metallic Foam Production Value Market Share by Fabrication Process in 2025

Figure 51. Casting Method

Figure 52. Deposition Method

Figure 53. Powder Metallurgy (Sintering) Method

Figure 54. World Open-Celled Metallic Foam Production Market Share by Fabrication Process (2021-2032)

Figure 55. World Open-Celled Metallic Foam Production Value Market Share by Fabrication Process (2021-2032)

Figure 56. World Open-Celled Metallic Foam Average Price by Fabrication Process (2021-2032) & (US\$/Cubic Meter)

Figure 57. World Open-Celled Metallic Foam Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Open-Celled Metallic Foam Production Value Market Share by Application in 2025

Figure 59. Architecture

Figure 60. Automobile

Figure 61. Aerospace

Figure 62. Others

Figure 63. World Open-Celled Metallic Foam Production Market Share by Application (2021-2032)

Figure 64. World Open-Celled Metallic Foam Production Value Market Share by Application (2021-2032)

Figure 65. World Open-Celled Metallic Foam Average Price by Application (2021-2032) & (US\$/Cubic Meter)

Figure 66. Open-Celled Metallic Foam Industry Chain

Figure 67. Open-Celled Metallic Foam Procurement Model

Figure 68. Open-Celled Metallic Foam Sales Model

Figure 69. Open-Celled Metallic Foam Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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