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Global Porous Aluminum Plate Market Growth 2026-2032

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Abstracts

The global Porous Aluminum Plate market size is predicted to grow from US$ 481 million in 2025 to US$ 705 million in 2032; it is expected to grow at a CAGR of 5.7% from 2026 to 2032.

Porous aluminum plate is a lightweight, permeable metal structure made by sintering or foaming aluminum powder, fiber, or granules to form a uniform matrix with controlled pore size and high mechanical strength. It combines the rigidity and corrosion resistance of aluminum with the functional advantages of a porous medium—such as air or fluid permeability, sound absorption, and heat dissipation. The supply chain begins with upstream raw materials, including aluminum ingots or alloy powders, foaming agents, and binders; midstream manufacturing involves powder metallurgy, vacuum sintering, extrusion, or casting with porosity control, followed by machining and surface finishing; and downstream applications span across aerospace, automotive, filtration, heat exchangers, acoustic dampening, chemical processing, and energy systems, where porous aluminum plates are used for lightweight structural panels, gas diffusion layers, and heat management components. In 2024, global Porous Aluminum Plate output was about 20,000 tons with a capacity near 25,000 tons. Prices ranged USD 18,000–42,000 per ton, and the average gross margin was 32%.

United States market for Porous Aluminum Plate is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Porous Aluminum Plate is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Porous Aluminum Plate is estimated to increase from US$ million in

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2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Porous Aluminum Plate players cover Portec (Switzerland), Exxentis (Switzerland), ALWA (Germany), Alupor (Russia), HAVEL Metal Foam (Germany), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Porous Aluminum Plate 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 Porous Aluminum Plate portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Porous Aluminum Plate market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Porous Aluminum Plate 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 Porous Aluminum Plate.

This report presents a comprehensive overview, market shares, and growth opportunities of Porous Aluminum Plate market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

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Open-Cell Structure

Closed-Cell Structure

Segmentation by Manufacturing Method:

Sintered Type

Foamed Type

Powder Metallurgy Type

Extruded Porous Type

Segmentation by Pore Size:

Micro-Porous (<50 μm)

Meso-Porous (50–500 μm)

Macro-Porous (>500 μm)

Segmentation by Alloy Composition:

Pure Aluminum Plate

Aluminum Alloy Plate

Segmentation by Application:

Construction

Automotive

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- Industrial Machinery
- Aerospace & Defense
- Others

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

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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.

Portec (Switzerland)

Exxentis (Switzerland)

ALWA (Germany)

Alupor (Russia)

HAVEL Metal Foam (Germany)

Beihai Composite Materials Group (China)

Henan Chalco Aluminium (China)

Shanxi Putai Aluminum Foam (China)

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Pohltec Metalfoam (Germany)

Aluinvent (Hungary)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Porous Aluminum Plate market?

What factors are driving Porous Aluminum Plate market growth, globally and by region?

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

How do Porous Aluminum Plate market opportunities vary by end market size?

How does Porous Aluminum Plate break out by Type, by Application?

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