

Global High Porosity Nickel Foam Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Porosity Nickel Foam market size is expected to reach \$ 2957 million by 2032, rising at a market growth of 12.2% CAGR during the forecast period (2026-2032).

In 2025, global high porosity nickel foam production reached approximately 0.058 million tons, with an average global market price of around US\$ 22,000 per ton.

The gross profit margin of major companies in the industry is between 30% ? 50%.

In 2025, the global production capacity of high porosity nickel foam was approximately 0.077 million tons.

High porosity nickel foam is a three-dimensional porous metal material characterized by high surface area, interconnected pore structure, and excellent electrical and thermal conductivity. It is widely used as a functional substrate in electrochemical systems, offering efficient charge transfer, structural support, and corrosion resistance under demanding operating conditions.

The industrial chain includes upstream nickel raw materials, alloying elements, foaming agents, and surface treatment chemicals. The midstream focuses on foam forming, pore structure control, sintering or electroplating processes, and precision cutting. Downstream applications mainly include lithium-ion and nickel-based batteries, fuel cells, supercapacitors, catalytic carriers, filtration systems, and advanced thermal management components.

The high porosity nickel foam market is experiencing rapid growth driven by the expansion of energy storage, fuel cell technologies, and advanced electrochemical applications. Its unique porous structure enables efficient electron transport, electrolyte penetration, and high reaction surface area, making it a critical material for next-generation batteries and hydrogen energy systems. Demand is further supported by electrification, renewable energy integration, and development of high-performance thermal management solutions. Continuous improvements in pore uniformity,

mechanical strength, and material purity enhance reliability and application scope. As global investment in clean energy and advanced materials accelerates, high porosity nickel foam is expected to remain a fast-growing segment with strong long-term potential.

This report studies the global High Porosity Nickel Foam production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global High Porosity Nickel Foam total production and demand, 2021-2032, (Kilotons)

Global High Porosity Nickel Foam total production value, 2021-2032, (USD Million)

Global High Porosity Nickel Foam production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global High Porosity Nickel Foam consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: High Porosity Nickel Foam domestic production, consumption, key domestic manufacturers and share

Global High Porosity Nickel Foam production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global High Porosity Nickel Foam production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global High Porosity Nickel Foam production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global High Porosity Nickel 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 Hunan Corun, Alantum, Sumitomo Electric Industries, Wuzhou Sanhe New Material, Heze Tianyu Technology, Novamet Specialty Products, JIA SHI DE, Kunshan Jiayisheng, 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 High Porosity Nickel Foam market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton)

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 High Porosity Nickel Foam Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Porosity Nickel Foam Market, Segmentation by Type:

Continuous Nickel Foam

Special Nickel Foam

Global High Porosity Nickel Foam Market, Segmentation by Porosity Level:

Medium Porosity Nickel Foam

High Porosity Nickel Foam

Ultra-High Porosity Nickel Foam

Global High Porosity Nickel Foam Market, Segmentation by Thickness:

Thin Nickel Foam

Standard Thickness Nickel Foam

Thick Nickel Foam

Global High Porosity Nickel Foam Market, Segmentation by Application:

Battery Electrode Material

Fuel Cell

Catalyst Material

Filter Material

Sound Absorbing Material

Others

Companies Profiled:

Hunan Corun

Alantum

Sumitomo Electric Industries

Wuzhou Sanhe New Material

Heze Tianyu Technology

Novamet Specialty Products

JIA SHI DE

Kunshan Jiayisheng

Key Questions Answered:

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

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