

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

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Abstracts

The global PVD Nickel Foam market size is expected to reach \$ 457 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

In 2025, global PVD Nickel Foam production reached approximately 2,576 thousand square meters, with an average global market price of around USD 100 per square meter.

The gross profit margin of major companies in the industry was approximately 28%–45%.

In 2025, global production capacity was approximately 3,400 thousand square meters.

PVD Nickel Foam is a porous metallic material produced by depositing high-purity nickel onto a three-dimensional foam substrate through physical vapor deposition. It provides controlled coating thickness, high porosity, electrical conductivity, corrosion resistance, and a large active surface area. The product is mainly used in battery electrodes, electrolyzers, fuel cells, catalysts, filtration, and thermal management. It excludes conventional electroplated nickel foam, bulk nickel sponge, nickel mesh, nickel powder, and downstream finished electrodes.

The industrial chain includes upstream high-purity nickel targets, polymer foam substrates, process gases, vacuum chambers, sputtering sources, and deposition equipment. Midstream covers substrate pretreatment, vacuum deposition, heat treatment, substrate removal, rolling, slitting, inspection, and surface modification. Downstream applications include batteries, hydrogen electrolyzers, fuel cells, catalyst carriers, filtration systems, aerospace components, electronics, and thermal-

management equipment.

PVD Nickel Foam is a porous conductive material produced or surface-modified through physical vapor deposition to form a uniform nickel layer on a three-dimensional foam substrate. It offers high porosity, electrical conductivity, specific surface area, corrosion resistance, and controllable coating thickness. The material is mainly used in batteries, supercapacitors, fuel cells, electrolyzers, catalysts, filtration systems, and electromagnetic shielding. The market is moving toward thinner and more uniform coatings, lower nickel consumption, high-purity surfaces, and compatibility with advanced electrode materials. Energy storage, hydrogen production, fuel-cell development, and demand for lightweight conductive structures are the main growth drivers. Although PVD enables precise surface control, it involves relatively high equipment and production costs. Large-scale production consistency, coating adhesion, process efficiency, and competition from electroplated nickel foam, metal mesh, and carbon-based current collectors remain major challenges.

Report Scope

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

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

Highlights and key features of the study

Global PVD Nickel Foam total production and demand, 2021-2032, (K Sqm)

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

Global PVD Nickel Foam production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global PVD Nickel Foam consumption by region & country, CAGR, 2021-2032 &

(K Sqm)

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

Global PVD Nickel Foam production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global PVD Nickel Foam production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global PVD Nickel Foam production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global PVD 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 Novamet Specialty Products Corporation, Sumitomo Electric Industries, Ltd., Alantum Corporation, ERG Aerospace Corporation, American Elements, Techinstro Industries, Nanoshel LLC, Changde Lyrun New Material Co., Ltd., Lantian High-Tech Materials (Dalian) Co., Ltd., Wuzhou Sanhe New Material Technology 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 PVD Nickel Foam market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) 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 PVD Nickel Foam Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global PVD Nickel Foam Market, Segmentation by Type:

Polymer-template Nickel Foam

Metal-substrate Nickel Foam

Carbon-substrate Nickel Foam

Global PVD Nickel Foam Market, Segmentation by Coating Structure:

Single-layer Nickel Coating

Multilayer Nickel Coating

Nickel-alloy Composite Coating

Global PVD Nickel Foam Market, Segmentation by Pore Density:

Low-pore-density(<50 PPI)

Medium-pore-density(>50–100 PPI)

High-pore-density(>100 PPI)

Global PVD Nickel Foam Market, Segmentation by Application:

Batteries and Supercapacitors

Hydrogen Energy and Electrolysis

Filtration, Catalysis and Electronics

Other

Companies Profiled:

Novamet Specialty Products Corporation

Sumitomo Electric Industries, Ltd.

Alantum Corporation

ERG Aerospace Corporation

American Elements

Techinstro Industries

Nanoshel LLC

Changde Lyrin New Material Co., Ltd.

Lantian High-Tech Materials (Dalian) Co., Ltd.

Wuzhou Sanhe New Material Technology Co., Ltd.

Heze Tianyu Technology Development Co., Ltd.

Kunshan Jiayisheng Electronics Co., Ltd.

Hunan Ted New Material Co., Ltd.

Key Questions Answered:

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

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