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Global PVD Nickel Foam Market Growth 2026-2032

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Abstracts

The global PVD Nickel Foam market size is predicted to grow from US$ 252 million in 2025 to US$ 446 million in 2032; it is expected to grow at a CAGR of 8.5% from 2026 to 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.

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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

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PVD Nickel Foam 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 PVD Nickel Foam.

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This report presents a comprehensive overview, market shares, and growth opportunities of PVD Nickel Foam market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Polymer-template Nickel Foam

Metal-substrate Nickel Foam

Carbon-substrate Nickel Foam

Segmentation by Coating Structure:

Single-layer Nickel Coating

Multilayer Nickel Coating

Nickel-alloy Composite Coating

Segmentation by Pore Density:

Low-pore-density??50 PPI?

Medium-pore-density??50–100 PPI?

High-pore-density??100 PPI?

Segmentation by Application:

Batteries and Supercapacitors

Hydrogen Energy and Electrolysis

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Filtration, Catalysis and Electronics

Other

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

UK

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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.

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.

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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 Addressed in this Report

What is the 10-year outlook for the global PVD Nickel Foam market?

What factors are driving PVD Nickel Foam market growth, globally and by region?

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

How do PVD Nickel Foam market opportunities vary by end market size?

How does PVD Nickel Foam break out by Type, by Application?

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