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Global PVD Evaporation Boat Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G14901543C1CEN.html
Date: January 2026
Pages: 129
Price: US$ 4,480.00 (Single User License)
ID: G14901543C1CEN

Abstracts

The global PVD Evaporation Boat market size is expected to reach $ 540 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

In 2025, global PVD Evaporation Boat production reached approximately 17.52 million units with an average global market price of around US$21 per unit. Single-line annual production capacity averages 200 k units with a gross margin of approximately 27%. The upstream of the PVD Evaporation Boat industry primarily includes high-purity metal targets and precision manufacturing materials, focusing on the semiconductor, photovoltaic, and display technology sectors; the downstream applications are divided into sputtering processes, film deposition, and others, with sputtering processes accounting for the highest share, approximately 60%. The industry chain analysis of PVD Evaporation Boats reveals a sustained growth in market demand, particularly in the field of high-performance film manufacturing, with business opportunities concentrated in technological innovation and customized solutions.

PVD Evaporation Boats are consumable resistive heating elements that serve as both the crucible and heater in thermal evaporation processes, designed to directly hold and vaporize metallic or alloy source materials via joule heating when a high electrical current is passed through them. Constructed from high-temperature, low-vapor-pressure refractory materials such as tungsten, molybdenum, tantalum, or their alloys, the boat must exhibit excellent electrical conductivity, high mechanical strength at operating temperatures to resist deformation, and chemical inertness to prevent adverse reactions with the charge material. Their geometry—typically a shallow, elongated trough—is engineered to maximize surface area contact with the source material, promote uniform current distribution for even heating, and provide a degree of directional control over the emitted vapor cloud. The boat's primary operational function

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is to achieve a rapid and stable transition of the source from solid to vapor phase at a controlled rate, which directly dictates film deposition rate and thickness uniformity. Precise thermal management through current control is critical to prevent spattering, minimize alloy decomposition or fractionation, and extend the boat's operational lifetime by mitigating excessive thermal stress and grain growth. Performance is fundamentally linked to achieving a stable melt pool, maintaining consistent wettability between the molten source and the boat surface, and ensuring minimal outgassing or contamination that could compromise thin-film purity. As a critical interface between the power supply and the vapor flux generation, the boat's design and material properties directly influence process reproducibility, material utilization efficiency, and the ultimate quality of the deposited film's adhesion, resistivity, and microstructure.

This report studies the global PVD Evaporation Boat production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global PVD Evaporation Boat total production and demand, 2021-2032, (K Units)

Global PVD Evaporation Boat total production value, 2021-2032, (USD Million)

Global PVD Evaporation Boat production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global PVD Evaporation Boat consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: PVD Evaporation Boat domestic production, consumption, key domestic manufacturers and share

Global PVD Evaporation Boat production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

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Global PVD Evaporation Boat production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global PVD Evaporation Boat production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global PVD Evaporation Boat 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 3M, Plansee, Kennametal(Sintec Group), Neyco, RD Mathis, Kurt J. Lesker, Supervac Industries, Demaco Vacuum, Shandong Pengcheng Advanced Ceramics, Qingzhou Dongshan, 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 Evaporation Boat market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) 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 Evaporation Boat Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Global PVD Evaporation Boat Market, Segmentation by Type:

Flat Boat Sources

Notched Boat Sources

Covered Boat Sources

Global PVD Evaporation Boat Market, Segmentation by Marerial:

Tungsten Evaporation Boat

Molybdenum Evaporation Boat

Tantalum Evaporation Boat

Other Materials

Global PVD Evaporation Boat Market, Segmentation by Application:

Metallizing Process

Thin Film Deposition

Others

Companies Profiled:

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3M

Plansee

Kennametal(Sintec Group)

Neyco

RD Mathis

Kurt J. Lesker

Supervac Industries

Demaco Vacuum

Shandong Pengcheng Advanced Ceramics

Qingzhou Dongshan

Zibo Sinri Advanced Ceramic

Shandong Jonye Ceramics

Beijing ATTL

Luoyang Achemetal

Guangzhou Materionix

Key Questions Answered:

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

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