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Global PVD Evaporation Boat Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global PVD Evaporation Boat market size was valued at US$ 379 million in 2025 and is forecast to a readjusted size of US$ 540 million by 2032 with a CAGR of 5.2% during review period.

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

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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 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 is a detailed and comprehensive analysis for global PVD Evaporation Boat market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global PVD Evaporation Boat market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global PVD Evaporation Boat market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global PVD Evaporation Boat market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global PVD Evaporation Boat market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

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The Primary Objectives in This Report Are:
To determine the size of the total market opportunity of global and key countries
To assess the growth potential for PVD Evaporation Boat
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global PVD Evaporation Boat market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

PVD Evaporation Boat market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Flat Boat Sources

Notched Boat Sources

Covered Boat Sources

Market segment by Marerial

Tungsten Evaporation Boat

Molybdenum Evaporation Boat

Tantalum Evaporation Boat

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Other Materials

Market segment by Application

Metallizing Process

Thin Film Deposition

Others

Major players covered

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

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Beijing ATTL

Luoyang Achemetal

Guangzhou Materionix

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe PVD Evaporation Boat product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PVD Evaporation Boat, with price, sales quantity, revenue, and global market share of PVD Evaporation Boat from 2021 to 2026.

Chapter 3, the PVD Evaporation Boat competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PVD Evaporation Boat breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and PVD Evaporation Boat market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of PVD Evaporation Boat.

Chapter 14 and 15, to describe PVD Evaporation Boat sales channel, distributors, customers, research findings and conclusion.

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