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Global PVD Evaporation Source 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 Source market size was valued at US$ 424 million in 2025 and is forecast to a readjusted size of US$ 604 million by 2032 with a CAGR of 5.2% during review period.

In 2025, global PVD Evaporation Source production reached approximately 13.73 million units with an average global market price of around US$30 per unit. Single-line annual production capacity averages 460 k units with a gross margin of approximately 26%. The upstream of the PVD Evaporation Source industry primarily includes high-purity metals, non-metallic targets, and evaporation source equipment, focusing on the semiconductor, optical, and electronic fields. In terms of downstream applications, the vacuum evaporation process accounts for the highest proportion, reaching 60%, with film deposition accounting for 30%, and other applications making up 10%. The technological iteration and capacity expansion in advanced semiconductor processes (such as high-k metal gates, ALD seed layers), new display technologies (such as Micro-LED, flexible OLED), and precision optical devices are driving the evolution of evaporation sources towards higher purity, more stable long-term evaporation rates, better film uniformity, and directional deposition capabilities for complex substrates. The core business opportunities lie in the development of high-temperature compatible evaporation sources for compound semiconductors (such as GaN, GaAs), linear evaporation source arrays for efficient large-area flat panel display production, and intelligent evaporation systems equipped with real-time film thickness and rate sensors to achieve closed-loop control, thereby addressing key technical bottlenecks such as precise co-evaporation of high-end materials and reproducibility of processes.

PVD Evaporation Sources function as the material delivery core in vacuum-based thin

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film deposition, serving to transform solid source materials into a directed vapor flux through controlled input of thermal energy. They operate by heating the target material beyond its sublimation or evaporation point within a high vacuum environment, thereby generating a vapor cloud with a near-Knudsen flow characteristic. The source's design—encompassing crucible geometry, heating mechanism (resistive, electron-beam, or inductive), and thermal management—directly governs the vaporization rate, angular distribution, and material utilization efficiency. Precise control over heating power and temperature is critical to achieving stable, repeatable deposition rates and maintaining consistent film stoichiometry, particularly for alloys or compounds. The vapor flux directionality, influenced by source aperture and position relative to the substrate, dictates film thickness uniformity and step coverage capabilities across complex topographies. Furthermore, the choice of source material and its thermal interaction with the crucible or hearth is fundamental to minimizing contamination, preventing unwanted chemical reactions, and ensuring the purity of the deposited film. By providing a controllable, localized high-temperature zone for material phase transition, the evaporation source establishes the foundational conditions for depositing films with specific microstructural, compositional, and functional properties, directly impacting adhesion, density, and electrical or optical performance.

This report is a detailed and comprehensive analysis for global PVD Evaporation Source 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 Source market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global PVD Evaporation Source 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 Source 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

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

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 Source
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 Source 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 Source 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

Tungsten Evaporation Source

Molybdenum Evaporation Source

Tantalum Evaporation Source

Other Materials

Market segment by Form

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Flat Boat Sources

Notched Boat Sources

Covered Boat Sources

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

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Shandong Jonye Ceramics

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 Source product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the PVD Evaporation Source 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

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quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and PVD Evaporation Source market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Source.

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

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