

Global Boat Type Evaporation Sources 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 Boat Type Evaporation Sources 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 Boat Type Evaporation Sources 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 boat type evaporation sources is focused on high-purity metal targets and precision processing materials, primarily serving the semiconductor, optical, and solar cell industries, among which the semiconductor industry accounts for the highest consumption share, approximately 60%. The demand is driven by the upgrading of downstream industries and technological innovation, with business opportunities lying in the provision of high-performance and customized evaporation source solutions.

Boat Type Evaporation Sources are resistive heating elements fabricated from refractory metals, serving as integrated crucible-heater units that directly hold and thermally vaporize source materials through Joule heating. Their defining characteristic is a shallow, elongated trough geometry, which optimizes surface contact with the charge to ensure uniform thermal transfer and efficient melting. Constructed from materials like tungsten, molybdenum, or tantalum alloys, the boat must exhibit high thermomechanical stability to withstand repeated thermal cycling without significant deformation or sagging, and possess sufficient chemical inertness to prevent alloying or adverse reactions with the evaporant. The primary operational function is to convert electrical energy into localized, high-intensity heat, rapidly transitioning the source

material from solid to a stable vapor phase with a controlled and consistent evaporation rate. This necessitates precise management of the applied current to achieve a stable molten pool, which is critical for minimizing spitting, achieving directional vapor emission, and maintaining film composition fidelity?especially for alloys. The boat's design directly influences vapor cloud distribution, material utilization efficiency, and the thermal budget imposed on the surrounding chamber. Its performance is inherently linked to maintaining good wettability between the molten source and the boat surface, managing thermal stress gradients to extend operational lifetime, and ensuring minimal contribution to film contamination through outgassing or particulate generation. As a fundamental, consumable interface in thermal evaporation, its reliable function underpins process repeatability, deposition rate control, and the attainment of desired thin-film properties such as uniformity, adhesion, and electrical conductivity.

In the future, the boat type evaporation source industry is poised to witness a convergence of technological innovation and customized design, enhancing the corrosion resistance and thermal efficiency of the equipment through the use of new materials and precise processing technologies. Simultaneously, the integration of intelligent technology and systems will trend towards optimizing energy efficiency and real-time monitoring. With the increasing emphasis on environmental protection, evaporation sources will focus more on energy conservation and reducing environmental impact, while adhering to global environmental regulations. Additionally, the industry will face challenges of miniaturization and lightweighting to meet the demands of portable devices and the growing market needs for semiconductors, optics, and solar cells. To ensure product quality and supply chain stability, the industry will strive to improve production standards and strengthen risk management.

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

Global Boat Type Evaporation Sources 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 Boat Type Evaporation Sources 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 Boat Type Evaporation Sources 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 Boat Type Evaporation Sources

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 Boat Type Evaporation Sources 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

Boat Type Evaporation Sources 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 Boat Type Evaporation Sources

Tantalum Boat Type Evaporation Sources

Molybdenum Boat Type Evaporation Sources

Others

Market segment by Form

Flat Boat Sources

Notched Boat Sources

Covered Boat Sources

Market segment by Electrical Conductivity

Conductive Evaporation Boat

Non-conductive Evaporation Boat

Market segment by Application

Semiconductor

Optics

Solar Battery

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

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 Boat Type Evaporation Sources product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Boat Type Evaporation Sources 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 Boat Type Evaporation Sources 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 Boat Type

Evaporation Sources.

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

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