

Global Silicon Sputtering Target Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicon Sputtering Target market size is expected to reach \$ 474 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032). Silicon sputtering targets are thin-film deposition materials made from high-purity silicon. They are primarily used in PVD sputtering processes to form silicon or silicon-based thin films in semiconductor, display panel, and photovoltaic manufacturing, and are crucial for the purity and electrical properties of the films.

Upstream applications mainly include high-purity polysilicon, electronic-grade silicon raw materials, and high-purity processing consumables; downstream applications are concentrated in semiconductor wafer manufacturing, flat panel displays (TFT-LCD, OLED), photovoltaic cells, and some optical and functional coating fields.

The global price of silicon sputtering targets is \$35,102 per ton, with annual sales of approximately 9,150 tons, a global annual production capacity of 11,000 tons, and an industry profit margin of 35%.

Global Market Future Development Trends

First, the semiconductor and display industries will drive demand growth. The continued expansion of advanced processes, advanced packaging, and high-resolution display panels will steadily increase the demand for high-purity, low-defect silicon sputtering targets. Especially in logic chips, memory, and OLED panels, silicon targets are key consumable materials, and their demand is highly correlated with wafer starts and panel production capacity.

Second, high purification and larger sizes will become the main technological trends. Downstream customers are increasingly demanding higher purity (6N and above), larger sizes, and higher utilization rates for silicon targets. Simultaneously, target manufacturing processes are paying more attention to uniformity and sputtering stability to reduce particle defects and improve yield.

Third, regional patterns and domestic production trends will coexist. Currently, high-end

silicon sputtering targets are still dominated by Japanese, Korean, and European/American manufacturers. However, driven by semiconductor supply chain security and localization needs, China and other Asian regions are accelerating technological breakthroughs and capacity expansion. The overall market is showing a development trend of 'steady demand growth, high technological barriers, and significant regional differentiation,' with growth mainly coming from the expansion of high-end applications rather than low-end volume increases.

This report studies the global Silicon Sputtering Target production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicon Sputtering Target 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 Silicon Sputtering Target that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicon Sputtering Target total production and demand, 2021-2032, (Tons)

Global Silicon Sputtering Target total production value, 2021-2032, (USD Million)

Global Silicon Sputtering Target production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Silicon Sputtering Target consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Silicon Sputtering Target domestic production, consumption, key domestic manufacturers and share

Global Silicon Sputtering Target production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Silicon Sputtering Target production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Silicon Sputtering Target production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Silicon Sputtering Target 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 SPM, The Kurt J. Lesker Company, American Elements, Plasmaterials, Sil'tronix Silicon Technologies, AEM, Nanografi Nano Technology, Stanford Advanced Materials, Xin Kang Coating Materials, Goodfellow, 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 Silicon Sputtering Target market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Silicon Sputtering Target Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Sputtering Target Market, Segmentation by Type:

Single Crystal

Polycrystalline

Global Silicon Sputtering Target Market, Segmentation by Chemical Composition:

Elemental Silicon Target

Doped Silicon Target

Global Silicon Sputtering Target Market, Segmentation by Purity Grade:

5N

6N

7N

8N

Global Silicon Sputtering Target Market, Segmentation by Application:

Semiconductor

Glass

Microelectronics

Others

Companies Profiled:

SPM

The Kurt J. Lesker Company

American Elements

Plasmaterials

Sil'tronix Silicon Technologies

AEM

Nanografi Nano Technology

Stanford Advanced Materials

Xin Kang Coating Materials

Goodfellow

JX Nippon Mining and Metals

Key Questions Answered:

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

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