

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

<https://marketpublishers.com/r/G4D360D08ED4EN.html>

Date: August 2026

Pages: 123

Price: US\$ 4,480.00 (Single User License)

ID: G4D360D08ED4EN

Abstracts

The global Titanium-Silicon Sputtering Targets market size is expected to reach \$ 541 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

In 2025, global Titanium-Silicon Sputtering Targets production reached approximately 718 k units, the average price is 500 usd/unit. Titanium-Silicon Sputtering Targets are specialized materials used in sputtering deposition processes to create thin films with a specific composition of titanium (Ti) and silicon (Si) elements. Sputtering is a technique used to deposit thin films onto substrates by bombarding a target material with ions or plasma, causing atoms to be ejected from the target and deposited onto the substrate.

Market Concentration and Major Players:

Internationally, the market concentration of titanium-silicon sputtering targets is relatively high, mainly concentrated in developed countries in Europe and America. Large manufacturers include Plansee SE and Stanford Advanced Materials. Domestically, however, there is still significant room for growth in the titanium-silicon sputtering target market.

Manufacturing Processes and Market Trends:

The mainstream preparation of titanium-silicon sputtering targets involves mixing sponge titanium and crystalline silicon, followed by vacuum induction melting and gas atomization to produce powder, then hot pressing and rapid sintering. Alternatively, powder metallurgy or vacuum arc melting followed by hot isostatic pressing and machining for backplane bonding can be used. The key is controlling the uniformity,

relative density, and grain structure of Si distribution to reduce sputtering arc and thin film defects. Semiconductor-grade requirements demand a purity of 5N or higher.

The global market is driven by semiconductor miniaturization. The demand for Ti-Si diffusion barrier layers and ohmic contacts continues to rise at 5nm/3nm nodes, 3D NAND, FinFET, and advanced packaging. Optical coatings, high-temperature aerospace components, and automotive electrification are expanding application scenarios. The Asia-Pacific region is the center of wafer manufacturing and sputtering material consumption. European manufacturers occupy the high-end market due to their material processes and certification barriers. The overall supply is affected by fluctuations in the high-purity titanium silicon raw material chain and geopolitical factors. Supply chain diversification and regional support have become considerations for downstream fabs.

This report studies the global Titanium-Silicon Sputtering Targets production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Titanium-Silicon Sputtering Targets total production and demand, 2021-2032, (K Units)

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

Global Titanium-Silicon Sputtering Targets production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Titanium-Silicon Sputtering Targets consumption by region & country, CAGR, 2021-2032 & (K Units)

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

Global Titanium-Silicon Sputtering Targets production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Titanium-Silicon Sputtering Targets production by Purity, production, value,

CAGR, 2021-2032, (USD Million) & (K Units)

Global Titanium-Silicon Sputtering Targets production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Titanium-Silicon Sputtering Targets 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 Plansee SE (Austria), ALB Materials Inc (USA), Stanford Advanced Materials (USA), FUNCMATER (China), American Elements (USA), Edgetech Industries (ETI) (USA), Changsha Xinkang New Materials (China), MSE Supplies (USA), Plasmaterials (USA), Neyco (France), 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 Titanium-Silicon Sputtering Targets 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 Purity, 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 Titanium-Silicon Sputtering Targets Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Titanium-Silicon Sputtering Targets Market, Segmentation by Purity:

0.98

0.99

Global Titanium-Silicon Sputtering Targets Market, Segmentation by Chemistry:

Ti-Si Alloy Target

TiSi Target

TiSi₂ Target

Global Titanium-Silicon Sputtering Targets Market, Segmentation by Size:

4-inch

8-inch

12-inch

Others

Global Titanium-Silicon Sputtering Targets Market, Segmentation by Application:

Aerospace

Semiconductor Manufacturing

Optical Coating

Electronic Devices

Materials Research

Other

Companies Profiled:

Plansee SE (Austria)

ALB Materials Inc (USA)

Stanford Advanced Materials (USA)

FUNCMATER (China)

American Elements (USA)

Edgetech Industries (ETI) (USA)

Changsha Xinkang New Materials (China)

MSE Supplies (USA)

Plasmaterials (USA)

Neyco (France)

EVOCHEM Advanced Materials (Germany)

Testbourne (UK)

VIMATERIAL (Germany)

Beijing Ruichi High Technology(China)

Jiangxi Ketai New Materials(China)

Key Questions Answered:

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

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