

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

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Abstracts

The global Polycrystalline Silicon Target market size is expected to reach \$ 181 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

Polycrystalline silicon sputtering targets are sputtering targets made from high-purity polycrystalline silicon through processes such as melting, sintering, or hot isostatic pressing. They are mainly used for magnetron sputtering to prepare silicon and silicon-based compound thin films, and are widely used in semiconductors, display panels, photovoltaics, and functional thin films.

The upstream mainly includes industrial silicon, high-purity silicon materials, polycrystalline silicon purification, and silicon raw material refining, and is significantly affected by the supply and demand and price cycles of silicon materials for photovoltaics and semiconductors. Downstream applications are mainly in high-end manufacturing fields such as semiconductor thin film deposition, LCD/OLED display panels, thin-film solar cells, optical coatings, and sensors.

The global price of vanadium sputtering targets is US\$16,100 per ton, with annual sales of approximately 8,013 tons, a global annual production capacity of 9,160 tons, and an industry profit margin of 18%.

Global Future Development Trends

As display panels evolve towards larger generation lines and semiconductor processes demand greater stability, polycrystalline silicon sputtering targets are continuously being upgraded in terms of size, density, and grain uniformity to reduce the risk of particle detachment and improve sputtering stability.

In advanced processes and high-performance thin-film applications, the requirements for controlling metal impurities, oxygen and carbon content, and microstructure defects are constantly increasing, driving the development of polycrystalline silicon sputtering targets towards 5N and above purity and fine microstructure control.

Unlike standard metal targets, polycrystalline silicon sputtering targets exhibit significant process differences in the semiconductor, display, and photovoltaic fields. The future market will increasingly reflect a customized development model characterized by small-batch, multi-specification production and strong equipment adaptability, with a steady increase in added value per ton.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Polycrystalline Silicon 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 JX Nippon Mining & Metals, Honeywell, Tosoh, Praxair, Mitsui Mining and Smelting, Materion, Heraeus, Plansee, Sumitomo Chemical, ULVAC Group, 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 Polycrystalline Silicon 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 Polycrystalline Silicon Target Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Polycrystalline Silicon Target Market, Segmentation by Type:

Circle

Rectangle

Ring

Other

Global Polycrystalline Silicon Target Market, Segmentation by Sputtering Processes:

DC Magnetron Sputtering Vanadium Target

RF Magnetron Sputtering Vanadium Target

Others

Global Polycrystalline Silicon Target Market, Segmentation by Purity Grade:

3N

4N

5N

Global Polycrystalline Silicon Target Market, Segmentation by Application:

Integrated Circuit

Flat Panel Display

Solar Battery

Others

Companies Profiled:

JX Nippon Mining & Metals

Honeywell

Tosoh

Praxair

Mitsui Mining and Smelting

Materion

Heraeus

Plansee

Sumitomo Chemical

ULVAC Group

Solar Applied Materials Technology

Fujian Acetron New Materials

Vital Thin Film Materials

Guangxi Crystal Union Photoelectric Materials

Key Questions Answered:

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

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