

Global Polycrystalline Silicon Target Market Growth 2026-2032

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Abstracts

The global Polycrystalline Silicon Target market size is predicted to grow from US\$ 126 million in 2025 to US\$ 175 million in 2032; it is expected to grow at a CAGR of 4.8% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Polycrystalline Silicon Target Industry Forecast" looks at past sales and reviews total world Polycrystalline Silicon Target sales in 2025, providing a comprehensive analysis by region and market sector of projected Polycrystalline Silicon Target sales for 2026 through 2032. With Polycrystalline Silicon Target sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Polycrystalline Silicon Target industry.

This Insight Report provides a comprehensive analysis of the global Polycrystalline Silicon Target landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Polycrystalline Silicon Target portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Polycrystalline Silicon Target market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Polycrystalline Silicon Target and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Polycrystalline Silicon Target.

This report presents a comprehensive overview, market shares, and growth opportunities of Polycrystalline Silicon Target market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Circle

Rectangle

Ring

Other

Segmentation by Sputtering Processes:

DC Magnetron Sputtering Vanadium Target

RF Magnetron Sputtering Vanadium Target

Others

Segmentation by Purity Grade:

3N

4N

5N

Segmentation by Application:

Integrated Circuit

Flat Panel Display

Solar Battery

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Polycrystalline Silicon Target market?

What factors are driving Polycrystalline Silicon Target market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Polycrystalline Silicon Target market opportunities vary by end market size?

How does Polycrystalline Silicon Target break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Polycrystalline Silicon Target Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Polycrystalline Silicon Target by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Polycrystalline Silicon Target by Country/Region, 2021, 2025 & 2032
- 2.2 Polycrystalline Silicon Target Segment by Type
 - 2.2.1 Circle
 - 2.2.2 Rectangle
 - 2.2.3 Ring
 - 2.2.4 Other
 - 2.2.5 Polycrystalline Silicon Target Sales by Type
 - 2.2.5.1 Global Polycrystalline Silicon Target Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Polycrystalline Silicon Target Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Polycrystalline Silicon Target Sale Price by Type (2021-2026)
- 2.3 Polycrystalline Silicon Target Segment by Sputtering Processes
 - 2.3.1 DC Magnetron Sputtering Vanadium Target
 - 2.3.2 RF Magnetron Sputtering Vanadium Target
 - 2.3.3 Others
 - 2.3.4 Polycrystalline Silicon Target Sales by Sputtering Processes
 - 2.3.4.1 Global Polycrystalline Silicon Target Sales Market Share by Sputtering Processes (2021-2026)

2.3.4.2 Global Polycrystalline Silicon Target Revenue and Market Share by Sputtering Processes (2021-2026)

2.3.4.3 Global Polycrystalline Silicon Target Sale Price by Sputtering Processes (2021-2026)

2.4 Polycrystalline Silicon Target Segment by Purity Grade

2.4.1 3N

2.4.2 4N

2.4.3 5N

2.4.4 Polycrystalline Silicon Target Sales by Purity Grade

2.4.4.1 Global Polycrystalline Silicon Target Sales Market Share by Purity Grade (2021-2026)

2.4.4.2 Global Polycrystalline Silicon Target Revenue and Market Share by Purity Grade (2021-2026)

2.4.4.3 Global Polycrystalline Silicon Target Sale Price by Purity Grade (2021-2026)

2.5 Polycrystalline Silicon Target Segment by Application

2.5.1 Integrated Circuit

2.5.2 Flat Panel Display

2.5.3 Solar Battery

2.5.4 Others

2.5.5 Polycrystalline Silicon Target Sales by Application

2.5.5.1 Global Polycrystalline Silicon Target Sale Market Share by Application (2021-2026)

2.5.5.2 Global Polycrystalline Silicon Target Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global Polycrystalline Silicon Target Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Polycrystalline Silicon Target Breakdown Data by Company

3.1.1 Global Polycrystalline Silicon Target Annual Sales by Company (2021-2026)

3.1.2 Global Polycrystalline Silicon Target Sales Market Share by Company (2021-2026)

3.2 Global Polycrystalline Silicon Target Annual Revenue by Company (2021-2026)

3.2.1 Global Polycrystalline Silicon Target Revenue by Company (2021-2026)

3.2.2 Global Polycrystalline Silicon Target Revenue Market Share by Company (2021-2026)

3.3 Global Polycrystalline Silicon Target Sale Price by Company

3.4 Key Manufacturers Polycrystalline Silicon Target Producing Area Distribution, Sales Area, Product Type

- 3.4.1 Key Manufacturers Polycrystalline Silicon Target Product Location Distribution
- 3.4.2 Players Polycrystalline Silicon Target Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR POLYCRYSTALLINE SILICON TARGET BY GEOGRAPHIC REGION

- 4.1 World Historic Polycrystalline Silicon Target Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Polycrystalline Silicon Target Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Polycrystalline Silicon Target Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Polycrystalline Silicon Target Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Polycrystalline Silicon Target Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Polycrystalline Silicon Target Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Polycrystalline Silicon Target Sales Growth
- 4.4 APAC Polycrystalline Silicon Target Sales Growth
- 4.5 Europe Polycrystalline Silicon Target Sales Growth
- 4.6 Middle East & Africa Polycrystalline Silicon Target Sales Growth

5 AMERICAS

- 5.1 Americas Polycrystalline Silicon Target Sales by Country
 - 5.1.1 Americas Polycrystalline Silicon Target Sales by Country (2021-2026)
 - 5.1.2 Americas Polycrystalline Silicon Target Revenue by Country (2021-2026)
- 5.2 Americas Polycrystalline Silicon Target Sales by Type (2021-2026)
- 5.3 Americas Polycrystalline Silicon Target Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

6.1 APAC Polycrystalline Silicon Target Sales by Region

6.1.1 APAC Polycrystalline Silicon Target Sales by Region (2021-2026)

6.1.2 APAC Polycrystalline Silicon Target Revenue by Region (2021-2026)

6.2 APAC Polycrystalline Silicon Target Sales by Type (2021-2026)

6.3 APAC Polycrystalline Silicon Target Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Polycrystalline Silicon Target by Country

7.1.1 Europe Polycrystalline Silicon Target Sales by Country (2021-2026)

7.1.2 Europe Polycrystalline Silicon Target Revenue by Country (2021-2026)

7.2 Europe Polycrystalline Silicon Target Sales by Type (2021-2026)

7.3 Europe Polycrystalline Silicon Target Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Polycrystalline Silicon Target by Country

8.1.1 Middle East & Africa Polycrystalline Silicon Target Sales by Country (2021-2026)

8.1.2 Middle East & Africa Polycrystalline Silicon Target Revenue by Country (2021-2026)

8.2 Middle East & Africa Polycrystalline Silicon Target Sales by Type (2021-2026)

8.3 Middle East & Africa Polycrystalline Silicon Target Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Polycrystalline Silicon Target

10.3 Manufacturing Process Analysis of Polycrystalline Silicon Target

10.4 Industry Chain Structure of Polycrystalline Silicon Target

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Polycrystalline Silicon Target Distributors

11.3 Polycrystalline Silicon Target Customer

12 WORLD FORECAST REVIEW FOR POLYCRYSTALLINE SILICON TARGET BY GEOGRAPHIC REGION

12.1 Global Polycrystalline Silicon Target Market Size Forecast by Region

12.1.1 Global Polycrystalline Silicon Target Forecast by Region (2027-2032)

12.1.2 Global Polycrystalline Silicon Target Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Polycrystalline Silicon Target Forecast by Type (2027-2032)

12.7 Global Polycrystalline Silicon Target Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 JX Nippon Mining & Metals

13.1.1 JX Nippon Mining & Metals Company Information

13.1.2 JX Nippon Mining & Metals Polycrystalline Silicon Target Product Portfolios and Specifications

13.1.3 JX Nippon Mining & Metals Polycrystalline Silicon Target Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 JX Nippon Mining & Metals Main Business Overview

13.1.5 JX Nippon Mining & Metals Latest Developments

13.2 Honeywell

13.2.1 Honeywell Company Information

13.2.2 Honeywell Polycrystalline Silicon Target Product Portfolios and Specifications

13.2.3 Honeywell Polycrystalline Silicon Target Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Honeywell Main Business Overview

13.2.5 Honeywell Latest Developments

13.3 Tosoh

13.3.1 Tosoh Company Information

13.3.2 Tosoh Polycrystalline Silicon Target Product Portfolios and Specifications

13.3.3 Tosoh Polycrystalline Silicon Target Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Tosoh Main Business Overview

13.3.5 Tosoh Latest Developments

13.4 Praxair

13.4.1 Praxair Company Information

13.4.2 Praxair Polycrystalline Silicon Target Product Portfolios and Specifications

13.4.3 Praxair Polycrystalline Silicon Target Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Praxair Main Business Overview

13.4.5 Praxair Latest Developments

13.5 Mitsui Mining and Smelting

13.5.1 Mitsui Mining and Smelting Company Information

13.5.2 Mitsui Mining and Smelting Polycrystalline Silicon Target Product Portfolios and Specifications

13.5.3 Mitsui Mining and Smelting Polycrystalline Silicon Target Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Mitsui Mining and Smelting Main Business Overview

13.5.5 Mitsui Mining and Smelting Latest Developments

13.6 Materion

13.6.1 Materion Company Information

13.6.2 Materion Polycrystalline Silicon Target Product Portfolios and Specifications

13.6.3 Materion Polycrystalline Silicon Target Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Materion Main Business Overview

13.6.5 Materion Latest Developments

13.7 Heraeus

13.7.1 Heraeus Company Information

13.7.2 Heraeus Polycrystalline Silicon Target Product Portfolios and Specifications

13.7.3 Heraeus Polycrystalline Silicon Target Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Heraeus Main Business Overview

13.7.5 Heraeus Latest Developments

13.8 Plansee

13.8.1 Plansee Company Information

13.8.2 Plansee Polycrystalline Silicon Target Product Portfolios and Specifications

13.8.3 Plansee Polycrystalline Silicon Target Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Plansee Main Business Overview

13.8.5 Plansee Latest Developments

13.9 Sumitomo Chemical

13.9.1 Sumitomo Chemical Company Information

13.9.2 Sumitomo Chemical Polycrystalline Silicon Target Product Portfolios and Specifications

13.9.3 Sumitomo Chemical Polycrystalline Silicon Target Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Sumitomo Chemical Main Business Overview

13.9.5 Sumitomo Chemical Latest Developments

13.10 ULVAC Group

13.10.1 ULVAC Group Company Information

13.10.2 ULVAC Group Polycrystalline Silicon Target Product Portfolios and Specifications

13.10.3 ULVAC Group Polycrystalline Silicon Target Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 ULVAC Group Main Business Overview

13.10.5 ULVAC Group Latest Developments

13.11 Solar Applied Materials Technology

13.11.1 Solar Applied Materials Technology Company Information

13.11.2 Solar Applied Materials Technology Polycrystalline Silicon Target Product Portfolios and Specifications

13.11.3 Solar Applied Materials Technology Polycrystalline Silicon Target Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Solar Applied Materials Technology Main Business Overview

13.11.5 Solar Applied Materials Technology Latest Developments

13.12 Fujian Acetron New Materials

13.12.1 Fujian Acetron New Materials Company Information

13.12.2 Fujian Acetron New Materials Polycrystalline Silicon Target Product Portfolios and Specifications

13.12.3 Fujian Acetron New Materials Polycrystalline Silicon Target Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Fujian Acetron New Materials Main Business Overview

13.12.5 Fujian Acetron New Materials Latest Developments

13.13 Vital Thin Film Materials

13.13.1 Vital Thin Film Materials Company Information

13.13.2 Vital Thin Film Materials Polycrystalline Silicon Target Product Portfolios and Specifications

13.13.3 Vital Thin Film Materials Polycrystalline Silicon Target Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Vital Thin Film Materials Main Business Overview

13.13.5 Vital Thin Film Materials Latest Developments

13.14 Guangxi Crystal Union Photoelectric Materials

13.14.1 Guangxi Crystal Union Photoelectric Materials Company Information

13.14.2 Guangxi Crystal Union Photoelectric Materials Polycrystalline Silicon Target Product Portfolios and Specifications

13.14.3 Guangxi Crystal Union Photoelectric Materials Polycrystalline Silicon Target Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Guangxi Crystal Union Photoelectric Materials Main Business Overview

13.14.5 Guangxi Crystal Union Photoelectric Materials Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Polycrystalline Silicon Target Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Polycrystalline Silicon Target Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Circle

Table 4. Major Players of Rectangle

Table 5. Major Players of Ring

Table 6. Major Players of Other

Table 7. Global Polycrystalline Silicon Target Sales by Type (2021-2026) & (Tons)

Table 8. Global Polycrystalline Silicon Target Sales Market Share by Type (2021-2026)

Table 9. Global Polycrystalline Silicon Target Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Polycrystalline Silicon Target Revenue Market Share by Type (2021-2026)

Table 11. Global Polycrystalline Silicon Target Sale Price by Type (2021-2026) & (US\$/Ton)

Table 12. Major Players of DC Magnetron Sputtering Vanadium Target

Table 13. Major Players of RF Magnetron Sputtering Vanadium Target

Table 14. Major Players of Others

Table 15. Global Polycrystalline Silicon Target Sales by Sputtering Processes (2021-2026) & (Tons)

Table 16. Global Polycrystalline Silicon Target Sales Market Share by Sputtering Processes (2021-2026)

Table 17. Global Polycrystalline Silicon Target Revenue by Sputtering Processes (2021-2026) & (\$ million)

Table 18. Global Polycrystalline Silicon Target Revenue Market Share by Sputtering Processes (2021-2026)

Table 19. Global Polycrystalline Silicon Target Sale Price by Sputtering Processes (2021-2026) & (US\$/Ton)

Table 20. Major Players of 3N

Table 21. Major Players of 4N

Table 22. Major Players of 5N

Table 23. Global Polycrystalline Silicon Target Sales by Purity Grade (2021-2026) & (Tons)

Table 24. Global Polycrystalline Silicon Target Sales Market Share by Purity Grade

(2021-2026)

Table 25. Global Polycrystalline Silicon Target Revenue by Purity Grade (2021-2026) & (\$ million)

Table 26. Global Polycrystalline Silicon Target Revenue Market Share by Purity Grade (2021-2026)

Table 27. Global Polycrystalline Silicon Target Sale Price by Purity Grade (2021-2026) & (US\$/Ton)

Table 28. Global Polycrystalline Silicon Target Sale by Application (2021-2026) & (Tons)

Table 29. Global Polycrystalline Silicon Target Sale Market Share by Application (2021-2026)

Table 30. Global Polycrystalline Silicon Target Revenue by Application (2021-2026) & (\$ million)

Table 31. Global Polycrystalline Silicon Target Revenue Market Share by Application (2021-2026)

Table 32. Global Polycrystalline Silicon Target Sale Price by Application (2021-2026) & (US\$/Ton)

Table 33. Global Polycrystalline Silicon Target Sales by Company (2021-2026) & (Tons)

Table 34. Global Polycrystalline Silicon Target Sales Market Share by Company (2021-2026)

Table 35. Global Polycrystalline Silicon Target Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global Polycrystalline Silicon Target Revenue Market Share by Company (2021-2026)

Table 37. Global Polycrystalline Silicon Target Sale Price by Company (2021-2026) & (US\$/Ton)

Table 38. Key Manufacturers Polycrystalline Silicon Target Producing Area Distribution and Sales Area

Table 39. Players Polycrystalline Silicon Target Products Offered

Table 40. Polycrystalline Silicon Target Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global Polycrystalline Silicon Target Sales by Geographic Region (2021-2026) & (Tons)

Table 44. Global Polycrystalline Silicon Target Sales Market Share Geographic Region (2021-2026)

Table 45. Global Polycrystalline Silicon Target Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global Polycrystalline Silicon Target Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global Polycrystalline Silicon Target Sales by Country/Region (2021-2026) & (Tons)

Table 48. Global Polycrystalline Silicon Target Sales Market Share by Country/Region (2021-2026)

Table 49. Global Polycrystalline Silicon Target Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global Polycrystalline Silicon Target Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas Polycrystalline Silicon Target Sales by Country (2021-2026) & (Tons)

Table 52. Americas Polycrystalline Silicon Target Sales Market Share by Country (2021-2026)

Table 53. Americas Polycrystalline Silicon Target Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas Polycrystalline Silicon Target Sales by Type (2021-2026) & (Tons)

Table 55. Americas Polycrystalline Silicon Target Sales by Application (2021-2026) & (Tons)

Table 56. APAC Polycrystalline Silicon Target Sales by Region (2021-2026) & (Tons)

Table 57. APAC Polycrystalline Silicon Target Sales Market Share by Region (2021-2026)

Table 58. APAC Polycrystalline Silicon Target Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC Polycrystalline Silicon Target Sales by Type (2021-2026) & (Tons)

Table 60. APAC Polycrystalline Silicon Target Sales by Application (2021-2026) & (Tons)

Table 61. Europe Polycrystalline Silicon Target Sales by Country (2021-2026) & (Tons)

Table 62. Europe Polycrystalline Silicon Target Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe Polycrystalline Silicon Target Sales by Type (2021-2026) & (Tons)

Table 64. Europe Polycrystalline Silicon Target Sales by Application (2021-2026) & (Tons)

Table 65. Middle East & Africa Polycrystalline Silicon Target Sales by Country (2021-2026) & (Tons)

Table 66. Middle East & Africa Polycrystalline Silicon Target Revenue Market Share by Country (2021-2026)

Table 67. Middle East & Africa Polycrystalline Silicon Target Sales by Type (2021-2026) & (Tons)

Table 68. Middle East & Africa Polycrystalline Silicon Target Sales by Application (2021-2026) & (Tons)

Table 69. Key Market Drivers & Growth Opportunities of Polycrystalline Silicon Target

Table 70. Key Market Challenges & Risks of Polycrystalline Silicon Target

Table 71. Key Industry Trends of Polycrystalline Silicon Target

Table 72. Polycrystalline Silicon Target Raw Material

Table 73. Key Suppliers of Raw Materials

Table 74. Polycrystalline Silicon Target Distributors List

Table 75. Polycrystalline Silicon Target Customer List

Table 76. Global Polycrystalline Silicon Target Sales Forecast by Region (2027-2032) & (Tons)

Table 77. Global Polycrystalline Silicon Target Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Americas Polycrystalline Silicon Target Sales Forecast by Country (2027-2032) & (Tons)

Table 79. Americas Polycrystalline Silicon Target Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. APAC Polycrystalline Silicon Target Sales Forecast by Region (2027-2032) & (Tons)

Table 81. APAC Polycrystalline Silicon Target Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 82. Europe Polycrystalline Silicon Target Sales Forecast by Country (2027-2032) & (Tons)

Table 83. Europe Polycrystalline Silicon Target Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Middle East & Africa Polycrystalline Silicon Target Sales Forecast by Country (2027-2032) & (Tons)

Table 85. Middle East & Africa Polycrystalline Silicon Target Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Global Polycrystalline Silicon Target Sales Forecast by Type (2027-2032) & (Tons)

Table 87. Global Polycrystalline Silicon Target Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 88. Global Polycrystalline Silicon Target Sales Forecast by Application (2027-2032) & (Tons)

Table 89. Global Polycrystalline Silicon Target Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 90. JX Nippon Mining & Metals Basic Information, Polycrystalline Silicon Target Manufacturing Base, Sales Area and Its Competitors

Table 91. JX Nippon Mining & Metals Polycrystalline Silicon Target Product Portfolios and Specifications

Table 92. JX Nippon Mining & Metals Polycrystalline Silicon Target Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 93. JX Nippon Mining & Metals Main Business

Table 94. JX Nippon Mining & Metals Latest Developments

Table 95. Honeywell Basic Information, Polycrystalline Silicon Target Manufacturing Base, Sales Area and Its Competitors

Table 96. Honeywell Polycrystalline Silicon Target Product Portfolios and Specifications

Table 97. Honeywell Polycrystalline Silicon Target Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 98. Honeywell Main Business

Table 99. Honeywell Latest Developments

Table 100. Tosoh Basic Information, Polycrystalline Silicon Target Manufacturing Base, Sales Area and Its Competitors

Table 101. Tosoh Polycrystalline Silicon Target Product Portfolios and Specifications

Table 102. Tosoh Polycrystalline Silicon Target Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 103. Tosoh Main Business

Table 104. Tosoh Latest Developments

Table 105. Praxair Basic Information, Polycrystalline Silicon Target Manufacturing Base, Sales Area and Its Competitors

Table 106. Praxair Polycrystalline Silicon Target Product Portfolios and Specifications

Table 107. Praxair Polycrystalline Silicon Target Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 108. Praxair Main Business

Table 109. Praxair Latest Developments

Table 110. Mitsui Mining and Smelting Basic Information, Polycrystalline Silicon Target Manufacturing Base, Sales Area and Its Competitors

Table 111. Mitsui Mining and Smelting Polycrystalline Silicon Target Product Portfolios and Specifications

Table 112. Mitsui Mining and Smelting Polycrystalline Silicon Target Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 113. Mitsui Mining and Smelting Main Business

Table 114. Mitsui Mining and Smelting Latest Developments

Table 115. Materion Basic Information, Polycrystalline Silicon Target Manufacturing Base, Sales Area and Its Competitors

Table 116. Materion Polycrystalline Silicon Target Product Portfolios and Specifications

Table 117. Materion Polycrystalline Silicon Target Sales (Tons), Revenue (\$ Million),

Price (US\$/Ton) and Gross Margin (2021-2026)

Table 118. Materion Main Business

Table 119. Materion Latest Developments

Table 120. Heraeus Basic Information, Polycrystalline Silicon Target Manufacturing Base, Sales Area and Its Competitors

Table 121. Heraeus Polycrystalline Silicon Target Product Portfolios and Specifications

Table 122. Heraeus Polycrystalline Silicon Target Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 123. Heraeus Main Business

Table 124. Heraeus Latest Developments

Table 125. Plansee Basic Information, Polycrystalline Silicon Target Manufacturing Base, Sales Area and Its Competitors

Table 126. Plansee Polycrystalline Silicon Target Product Portfolios and Specifications

Table 127. Plansee Polycrystalline Silicon Target Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 128. Plansee Main Business

Table 129. Plansee Latest Developments

Table 130. Sumitomo Chemical Basic Information, Polycrystalline Silicon Target Manufacturing Base, Sales Area and Its Competitors

Table 131. Sumitomo Chemical Polycrystalline Silicon Target Product Portfolios and Specifications

Table 132. Sumitomo Chemical Polycrystalline Silicon Target Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 133. Sumitomo Chemical Main Business

Table 134. Sumitomo Chemical Latest Developments

Table 135. ULVAC Group Basic Information, Polycrystalline Silicon Target Manufacturing Base, Sales Area and Its Competitors

Table 136. ULVAC Group Polycrystalline Silicon Target Product Portfolios and Specifications

Table 137. ULVAC Group Polycrystalline Silicon Target Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 138. ULVAC Group Main Business

Table 139. ULVAC Group Latest Developments

Table 140. Solar Applied Materials Technology Basic Information, Polycrystalline Silicon Target Manufacturing Base, Sales Area and Its Competitors

Table 141. Solar Applied Materials Technology Polycrystalline Silicon Target Product Portfolios and Specifications

Table 142. Solar Applied Materials Technology Polycrystalline Silicon Target Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 143. Solar Applied Materials Technology Main Business
Table 144. Solar Applied Materials Technology Latest Developments
Table 145. Fujian Acetron New Materials Basic Information, Polycrystalline Silicon Target Manufacturing Base, Sales Area and Its Competitors
Table 146. Fujian Acetron New Materials Polycrystalline Silicon Target Product Portfolios and Specifications
Table 147. Fujian Acetron New Materials Polycrystalline Silicon Target Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 148. Fujian Acetron New Materials Main Business
Table 149. Fujian Acetron New Materials Latest Developments
Table 150. Vital Thin Film Materials Basic Information, Polycrystalline Silicon Target Manufacturing Base, Sales Area and Its Competitors
Table 151. Vital Thin Film Materials Polycrystalline Silicon Target Product Portfolios and Specifications
Table 152. Vital Thin Film Materials Polycrystalline Silicon Target Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 153. Vital Thin Film Materials Main Business
Table 154. Vital Thin Film Materials Latest Developments
Table 155. Guangxi Crystal Union Photoelectric Materials Basic Information, Polycrystalline Silicon Target Manufacturing Base, Sales Area and Its Competitors
Table 156. Guangxi Crystal Union Photoelectric Materials Polycrystalline Silicon Target Product Portfolios and Specifications
Table 157. Guangxi Crystal Union Photoelectric Materials Polycrystalline Silicon Target Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 158. Guangxi Crystal Union Photoelectric Materials Main Business
Table 159. Guangxi Crystal Union Photoelectric Materials Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Polycrystalline Silicon Target
- Figure 2. Polycrystalline Silicon Target Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Polycrystalline Silicon Target Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Polycrystalline Silicon Target Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Polycrystalline Silicon Target Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Polycrystalline Silicon Target Sales Market Share by Country/Region (2025)
- Figure 10. Polycrystalline Silicon Target Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Circle
- Figure 12. Product Picture of Rectangle
- Figure 13. Product Picture of Ring
- Figure 14. Product Picture of Other
- Figure 15. Global Polycrystalline Silicon Target Sales Market Share by Type in 2026
- Figure 16. Global Polycrystalline Silicon Target Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of DC Magnetron Sputtering Vanadium Target
- Figure 18. Product Picture of RF Magnetron Sputtering Vanadium Target
- Figure 19. Product Picture of Others
- Figure 20. Global Polycrystalline Silicon Target Sales Market Share by Sputtering Processes in 2026
- Figure 21. Global Polycrystalline Silicon Target Revenue Market Share by Sputtering Processes (2021-2026)
- Figure 22. Product Picture of 3N
- Figure 23. Product Picture of 4N
- Figure 24. Product Picture of 5N
- Figure 25. Global Polycrystalline Silicon Target Sales Market Share by Purity Grade in 2026
- Figure 26. Global Polycrystalline Silicon Target Revenue Market Share by Purity Grade (2021-2026)
- Figure 27. Polycrystalline Silicon Target Consumed in Integrated Circuit

Figure 28. Global Polycrystalline Silicon Target Market: Integrated Circuit (2021-2026) & (Tons)

Figure 29. Polycrystalline Silicon Target Consumed in Flat Panel Display

Figure 30. Global Polycrystalline Silicon Target Market: Flat Panel Display (2021-2026) & (Tons)

Figure 31. Polycrystalline Silicon Target Consumed in Solar Battery

Figure 32. Global Polycrystalline Silicon Target Market: Solar Battery (2021-2026) & (Tons)

Figure 33. Polycrystalline Silicon Target Consumed in Others

Figure 34. Global Polycrystalline Silicon Target Market: Others (2021-2026) & (Tons)

Figure 35. Global Polycrystalline Silicon Target Sale Market Share by Application (2025)

Figure 36. Global Polycrystalline Silicon Target Revenue Market Share by Application in 2026

Figure 37. Polycrystalline Silicon Target Sales by Company in 2026 (Tons)

Figure 38. Global Polycrystalline Silicon Target Sales Market Share by Company in 2026

Figure 39. Polycrystalline Silicon Target Revenue by Company in 2026 (\$ millions)

Figure 40. Global Polycrystalline Silicon Target Revenue Market Share by Company in 2026

Figure 41. Global Polycrystalline Silicon Target Sales Market Share by Geographic Region (2021-2026)

Figure 42. Global Polycrystalline Silicon Target Revenue Market Share by Geographic Region in 2026

Figure 43. Americas Polycrystalline Silicon Target Sales 2021-2026 (Tons)

Figure 44. Americas Polycrystalline Silicon Target Revenue 2021-2026 (\$ millions)

Figure 45. APAC Polycrystalline Silicon Target Sales 2021-2026 (Tons)

Figure 46. APAC Polycrystalline Silicon Target Revenue 2021-2026 (\$ millions)

Figure 47. Europe Polycrystalline Silicon Target Sales 2021-2026 (Tons)

Figure 48. Europe Polycrystalline Silicon Target Revenue 2021-2026 (\$ millions)

Figure 49. Middle East & Africa Polycrystalline Silicon Target Sales 2021-2026 (Tons)

Figure 50. Middle East & Africa Polycrystalline Silicon Target Revenue 2021-2026 (\$ millions)

Figure 51. Americas Polycrystalline Silicon Target Sales Market Share by Country in 2026

Figure 52. Americas Polycrystalline Silicon Target Revenue Market Share by Country (2021-2026)

Figure 53. Americas Polycrystalline Silicon Target Sales Market Share by Type (2021-2026)

Figure 54. Americas Polycrystalline Silicon Target Sales Market Share by Application

(2021-2026)

Figure 55. United States Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 56. Canada Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 57. Mexico Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 58. Brazil Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 59. APAC Polycrystalline Silicon Target Sales Market Share by Region in 2026

Figure 60. APAC Polycrystalline Silicon Target Revenue Market Share by Region (2021-2026)

Figure 61. APAC Polycrystalline Silicon Target Sales Market Share by Type (2021-2026)

Figure 62. APAC Polycrystalline Silicon Target Sales Market Share by Application (2021-2026)

Figure 63. China Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 64. Japan Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 65. South Korea Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 66. Southeast Asia Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 67. India Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 68. Australia Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 69. China Taiwan Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 70. Europe Polycrystalline Silicon Target Sales Market Share by Country in 2026

Figure 71. Europe Polycrystalline Silicon Target Revenue Market Share by Country (2021-2026)

Figure 72. Europe Polycrystalline Silicon Target Sales Market Share by Type (2021-2026)

Figure 73. Europe Polycrystalline Silicon Target Sales Market Share by Application (2021-2026)

Figure 74. Germany Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 75. France Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 76. UK Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 77. Italy Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 78. Russia Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 79. Middle East & Africa Polycrystalline Silicon Target Sales Market Share by

Country (2021-2026)

Figure 80. Middle East & Africa Polycrystalline Silicon Target Sales Market Share by Type (2021-2026)

Figure 81. Middle East & Africa Polycrystalline Silicon Target Sales Market Share by Application (2021-2026)

Figure 82. Egypt Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 83. South Africa Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 84. Israel Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 85. Turkey Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 86. GCC Countries Polycrystalline Silicon Target Revenue Growth 2021-2026 (\$ millions)

Figure 87. Manufacturing Cost Structure Analysis of Polycrystalline Silicon Target in 2026

Figure 88. Manufacturing Process Analysis of Polycrystalline Silicon Target

Figure 89. Industry Chain Structure of Polycrystalline Silicon Target

Figure 90. Channels of Distribution

Figure 91. Global Polycrystalline Silicon Target Sales Market Forecast by Region (2027-2032)

Figure 92. Global Polycrystalline Silicon Target Revenue Market Share Forecast by Region (2027-2032)

Figure 93. Global Polycrystalline Silicon Target Sales Market Share Forecast by Type (2027-2032)

Figure 94. Global Polycrystalline Silicon Target Revenue Market Share Forecast by Type (2027-2032)

Figure 95. Global Polycrystalline Silicon Target Sales Market Share Forecast by Application (2027-2032)

Figure 96. Global Polycrystalline Silicon Target Revenue Market Share Forecast by Application (2027-2032)

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