

Global Photovoltaic Grade Silicon Nitride Powder Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G976651BACB2EN.html>

Date: December 2025

Pages: 102

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

ID: G976651BACB2EN

Abstracts

The global Photovoltaic Grade Silicon Nitride Powder market size is expected to reach \$ 49.99 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

China, as the largest producer of PV, is the largest consumer of Photovoltaic Grade Silicon Nitride Powder as well.

The average gross margin of the industry ranges from 20%-30%.

Photovoltaic Grade Silicon Nitride Powder refers to high-purity, tightly controlled silicon nitride (Si₃N₄) powder that is qualified for photovoltaic silicon ingot manufacturing?most commonly as a release agent / anti-sticking layer and/or crucible inner-wall coating material used in the casting/solidification of silicon. Compared with general-purpose Si₃N₄ powder, PV grade typically emphasizes very low metallic contamination (e.g., Fe, Al, Ca, Cr, Ni), low oxygen/halogen content, controlled particle-size distribution and agglomeration, and stable phase composition, to minimize impurity introduction and ensure coating/release performance consistency.

Production process: Photovoltaic Grade Silicon Nitride Powder (Si₃N₄) is typically manufactured by synthesizing Si₃N₄ from high-purity silicon sources and nitrogen (or ammonia) under controlled high-temperature conditions (common routes include direct nitridation of silicon and other nitridation-based processes). The synthesized material then goes through crushing/milling, de-agglomeration, precision classification (PSD control), and impurity-removal steps such as magnetic separation and chemical purification to achieve ultra-low metallic contamination. Finally, producers perform phase control (?? adjustment), moisture/oxygen control, tight QC (XRD/PSD/ICP, etc.), and clean packaging, because PV applications are highly sensitive to trace contamination and lot-to-lot variation.

Market drivers: Demand is mainly pulled by the photovoltaic silicon ingot and wafer supply chain, where Si₃N₄ powder is used in release/anti-sticking and/or

crucible/coating systems to support stable production and yield. As the industry pushes for larger ingots/wafers, higher throughput, better yield, and lower cost per watt, manufacturers increasingly value powders with more consistent particle size, lower impurities, and more stable coating/release performance. In addition, supply security and localization of critical consumables (especially for high-purity grades) also drive qualification of multiple vendors and capacity expansion.

Market challenges: The key challenge is delivering stable PV-grade quality at scale?especially controlling trace metals, oxygen/moisture, agglomeration behavior, and phase consistency?while keeping costs competitive. Supplier qualification can be time-consuming because customers validate the powder in real ingot/coating processes, and once approved, switching costs are high. On the commercial side, the product can face price pressure and commoditization, while technically it must keep pace with evolving ingot processes and potential alternative coating/release materials, alongside tighter EHS requirements for fine-powder handling and high-temperature production.

This report studies the global Photovoltaic Grade Silicon Nitride Powder production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Photovoltaic Grade Silicon Nitride Powder total production and demand, 2021-2032, (Kiloton)

Global Photovoltaic Grade Silicon Nitride Powder total production value, 2021-2032, (USD Million)

Global Photovoltaic Grade Silicon Nitride Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton), (based on production site)

Global Photovoltaic Grade Silicon Nitride Powder consumption by region & country, CAGR, 2021-2032 & (Kiloton)

U.S. VS China: Photovoltaic Grade Silicon Nitride Powder domestic production, consumption, key domestic manufacturers and share

Global Photovoltaic Grade Silicon Nitride Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kiloton)

Global Photovoltaic Grade Silicon Nitride Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

Global Photovoltaic Grade Silicon Nitride Powder production by Application, production,

value, CAGR, 2021-2032, (USD Million) & (Kiloton)

This report profiles key players in the global Photovoltaic Grade Silicon Nitride Powder 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 Hogganas, AlzChem, Hebei Corefra Silicon Nitride Material, Hongwu International Group, Qingdao Alticera Advanced Materials, Jiangxi Silicon Nitride New Material, 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 Photovoltaic Grade Silicon Nitride Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kiloton) and average price (US\$/Kg) 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 Photovoltaic Grade Silicon Nitride Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photovoltaic Grade Silicon Nitride Powder Market, Segmentation by Type:

1?5 ?m

>5 ?m

Global Photovoltaic Grade Silicon Nitride Powder Market, Segmentation by Phase Composition:

?-Si?N?

?-Si?N?

Other

Global Photovoltaic Grade Silicon Nitride Powder Market, Segmentation by Application:

Crucible Inner-Wall Coating

Ingot Release

Other

Companies Profiled:

Hoganas

AlzChem

Hebei Corefra Silicon Nitride Material

Hongwu International Group

Qingdao Alticera Advanced Materials

Jiangxi Silicon Nitride New Material

Key Questions Answered:

Global Photovoltaic Grade Silicon Nitride Powder Supply, Demand and Key Producers, 2026-2032

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

Contents

1 SUPPLY SUMMARY

- 1.1 Photovoltaic Grade Silicon Nitride Powder Introduction
- 1.2 World Photovoltaic Grade Silicon Nitride Powder Supply & Forecast
 - 1.2.1 World Photovoltaic Grade Silicon Nitride Powder Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Photovoltaic Grade Silicon Nitride Powder Production (2021-2032)
 - 1.2.3 World Photovoltaic Grade Silicon Nitride Powder Pricing Trends (2021-2032)
- 1.3 World Photovoltaic Grade Silicon Nitride Powder Production by Region (Based on Production Site)
 - 1.3.1 World Photovoltaic Grade Silicon Nitride Powder Production Value by Region (2021-2032)
 - 1.3.2 World Photovoltaic Grade Silicon Nitride Powder Production by Region (2021-2032)
 - 1.3.3 World Photovoltaic Grade Silicon Nitride Powder Average Price by Region (2021-2032)
 - 1.3.4 North America Photovoltaic Grade Silicon Nitride Powder Production (2021-2032)
 - 1.3.5 Europe Photovoltaic Grade Silicon Nitride Powder Production (2021-2032)
 - 1.3.6 China Photovoltaic Grade Silicon Nitride Powder Production (2021-2032)
 - 1.3.7 Japan Photovoltaic Grade Silicon Nitride Powder Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Photovoltaic Grade Silicon Nitride Powder Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Photovoltaic Grade Silicon Nitride Powder Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Photovoltaic Grade Silicon Nitride Powder Demand (2021-2032)
- 2.2 World Photovoltaic Grade Silicon Nitride Powder Consumption by Region
 - 2.2.1 World Photovoltaic Grade Silicon Nitride Powder Consumption by Region (2021-2026)
 - 2.2.2 World Photovoltaic Grade Silicon Nitride Powder Consumption Forecast by Region (2027-2032)
- 2.3 United States Photovoltaic Grade Silicon Nitride Powder Consumption (2021-2032)
- 2.4 China Photovoltaic Grade Silicon Nitride Powder Consumption (2021-2032)
- 2.5 Europe Photovoltaic Grade Silicon Nitride Powder Consumption (2021-2032)

- 2.6 Japan Photovoltaic Grade Silicon Nitride Powder Consumption (2021-2032)
- 2.7 South Korea Photovoltaic Grade Silicon Nitride Powder Consumption (2021-2032)
- 2.8 ASEAN Photovoltaic Grade Silicon Nitride Powder Consumption (2021-2032)
- 2.9 India Photovoltaic Grade Silicon Nitride Powder Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Photovoltaic Grade Silicon Nitride Powder Production Value by Manufacturer (2021-2026)
- 3.2 World Photovoltaic Grade Silicon Nitride Powder Production by Manufacturer (2021-2026)
- 3.3 World Photovoltaic Grade Silicon Nitride Powder Average Price by Manufacturer (2021-2026)
- 3.4 Photovoltaic Grade Silicon Nitride Powder Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Photovoltaic Grade Silicon Nitride Powder Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Photovoltaic Grade Silicon Nitride Powder in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Photovoltaic Grade Silicon Nitride Powder in 2025
- 3.6 Photovoltaic Grade Silicon Nitride Powder Market: Overall Company Footprint Analysis
 - 3.6.1 Photovoltaic Grade Silicon Nitride Powder Market: Region Footprint
 - 3.6.2 Photovoltaic Grade Silicon Nitride Powder Market: Company Product Type Footprint
 - 3.6.3 Photovoltaic Grade Silicon Nitride Powder Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Photovoltaic Grade Silicon Nitride Powder Production Value Comparison

4.1.1 United States VS China: Photovoltaic Grade Silicon Nitride Powder Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Photovoltaic Grade Silicon Nitride Powder Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Photovoltaic Grade Silicon Nitride Powder Production Comparison

4.2.1 United States VS China: Photovoltaic Grade Silicon Nitride Powder Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Photovoltaic Grade Silicon Nitride Powder Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Photovoltaic Grade Silicon Nitride Powder Consumption Comparison

4.3.1 United States VS China: Photovoltaic Grade Silicon Nitride Powder Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Photovoltaic Grade Silicon Nitride Powder Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Photovoltaic Grade Silicon Nitride Powder Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Photovoltaic Grade Silicon Nitride Powder Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production Value (2021-2026)

4.4.3 United States Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production (2021-2026)

4.5 China Based Photovoltaic Grade Silicon Nitride Powder Manufacturers and Market Share

4.5.1 China Based Photovoltaic Grade Silicon Nitride Powder Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production Value (2021-2026)

4.5.3 China Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production (2021-2026)

4.6 Rest of World Based Photovoltaic Grade Silicon Nitride Powder Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Photovoltaic Grade Silicon Nitride Powder Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Photovoltaic Grade Silicon Nitride Powder

Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Photovoltaic Grade Silicon Nitride Powder Market Size Overview by Type:
2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 $1 \leq x < 5$ μm

5.2.3 > 5 μm

5.3 Market Segment by Type

5.3.1 World Photovoltaic Grade Silicon Nitride Powder Production by Type
(2021-2032)

5.3.2 World Photovoltaic Grade Silicon Nitride Powder Production Value by Type
(2021-2032)

5.3.3 World Photovoltaic Grade Silicon Nitride Powder Average Price by Type
(2021-2032)

6 MARKET ANALYSIS BY PHASE COMPOSITION

6.1 World Photovoltaic Grade Silicon Nitride Powder Market Size Overview by Phase
Composition: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Phase Composition

6.2.1 γ -Si₃N₄

6.2.2 β -Si₃N₄

6.2.3 Other

6.3 Market Segment by Phase Composition

6.3.1 World Photovoltaic Grade Silicon Nitride Powder Production by Phase
Composition (2021-2032)

6.3.2 World Photovoltaic Grade Silicon Nitride Powder Production Value by Phase
Composition (2021-2032)

6.3.3 World Photovoltaic Grade Silicon Nitride Powder Average Price by Phase
Composition (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Photovoltaic Grade Silicon Nitride Powder Market Size Overview by
Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Crucible Inner-Wall Coating

7.2.2 Ingot Release

7.2.3 Other

7.3 Market Segment by Application

7.3.1 World Photovoltaic Grade Silicon Nitride Powder Production by Application (2021-2032)

7.3.2 World Photovoltaic Grade Silicon Nitride Powder Production Value by Application (2021-2032)

7.3.3 World Photovoltaic Grade Silicon Nitride Powder Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Hoganas

8.1.1 Hoganas Details

8.1.2 Hoganas Major Business

8.1.3 Hoganas Photovoltaic Grade Silicon Nitride Powder Product and Services

8.1.4 Hoganas Photovoltaic Grade Silicon Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Hoganas Recent Developments/Updates

8.1.6 Hoganas Competitive Strengths & Weaknesses

8.2 AlzChem

8.2.1 AlzChem Details

8.2.2 AlzChem Major Business

8.2.3 AlzChem Photovoltaic Grade Silicon Nitride Powder Product and Services

8.2.4 AlzChem Photovoltaic Grade Silicon Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 AlzChem Recent Developments/Updates

8.2.6 AlzChem Competitive Strengths & Weaknesses

8.3 Hebei Corefra Silicon Nitride Material

8.3.1 Hebei Corefra Silicon Nitride Material Details

8.3.2 Hebei Corefra Silicon Nitride Material Major Business

8.3.3 Hebei Corefra Silicon Nitride Material Photovoltaic Grade Silicon Nitride Powder Product and Services

8.3.4 Hebei Corefra Silicon Nitride Material Photovoltaic Grade Silicon Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 Hebei Corefra Silicon Nitride Material Recent Developments/Updates

8.3.6 Hebei Corefra Silicon Nitride Material Competitive Strengths & Weaknesses

8.4 Hongwu International Group

8.4.1 Hongwu International Group Details

- 8.4.2 Hongwu International Group Major Business
- 8.4.3 Hongwu International Group Photovoltaic Grade Silicon Nitride Powder Product and Services
- 8.4.4 Hongwu International Group Photovoltaic Grade Silicon Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.4.5 Hongwu International Group Recent Developments/Updates
- 8.4.6 Hongwu International Group Competitive Strengths & Weaknesses
- 8.5 Qingdao Alticera Advanced Materials
 - 8.5.1 Qingdao Alticera Advanced Materials Details
 - 8.5.2 Qingdao Alticera Advanced Materials Major Business
 - 8.5.3 Qingdao Alticera Advanced Materials Photovoltaic Grade Silicon Nitride Powder Product and Services
 - 8.5.4 Qingdao Alticera Advanced Materials Photovoltaic Grade Silicon Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 Qingdao Alticera Advanced Materials Recent Developments/Updates
 - 8.5.6 Qingdao Alticera Advanced Materials Competitive Strengths & Weaknesses
- 8.6 Jiangxi Silicon Nitride New Material
 - 8.6.1 Jiangxi Silicon Nitride New Material Details
 - 8.6.2 Jiangxi Silicon Nitride New Material Major Business
 - 8.6.3 Jiangxi Silicon Nitride New Material Photovoltaic Grade Silicon Nitride Powder Product and Services
 - 8.6.4 Jiangxi Silicon Nitride New Material Photovoltaic Grade Silicon Nitride Powder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.6.5 Jiangxi Silicon Nitride New Material Recent Developments/Updates
 - 8.6.6 Jiangxi Silicon Nitride New Material Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

- 9.1 Photovoltaic Grade Silicon Nitride Powder Industry Chain
- 9.2 Photovoltaic Grade Silicon Nitride Powder Upstream Analysis
 - 9.2.1 Photovoltaic Grade Silicon Nitride Powder Core Raw Materials
 - 9.2.2 Main Manufacturers of Photovoltaic Grade Silicon Nitride Powder Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 Photovoltaic Grade Silicon Nitride Powder Production Mode
- 9.6 Photovoltaic Grade Silicon Nitride Powder Procurement Model
- 9.7 Photovoltaic Grade Silicon Nitride Powder Industry Sales Model and Sales Channels

9.7.1 Photovoltaic Grade Silicon Nitride Powder Sales Model

9.7.2 Photovoltaic Grade Silicon Nitride Powder Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Photovoltaic Grade Silicon Nitride Powder Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Photovoltaic Grade Silicon Nitride Powder Production Value by Region (2021-2026) & (USD Million)

Table 3. World Photovoltaic Grade Silicon Nitride Powder Production Value by Region (2027-2032) & (USD Million)

Table 4. World Photovoltaic Grade Silicon Nitride Powder Production Value Market Share by Region (2021-2026)

Table 5. World Photovoltaic Grade Silicon Nitride Powder Production Value Market Share by Region (2027-2032)

Table 6. World Photovoltaic Grade Silicon Nitride Powder Production by Region (2021-2026) & (Kiloton)

Table 7. World Photovoltaic Grade Silicon Nitride Powder Production by Region (2027-2032) & (Kiloton)

Table 8. World Photovoltaic Grade Silicon Nitride Powder Production Market Share by Region (2021-2026)

Table 9. World Photovoltaic Grade Silicon Nitride Powder Production Market Share by Region (2027-2032)

Table 10. World Photovoltaic Grade Silicon Nitride Powder Average Price by Region (2021-2026) & (US\$/Kg)

Table 11. World Photovoltaic Grade Silicon Nitride Powder Average Price by Region (2027-2032) & (US\$/Kg)

Table 12. Photovoltaic Grade Silicon Nitride Powder Major Market Trends

Table 13. World Photovoltaic Grade Silicon Nitride Powder Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kiloton)

Table 14. World Photovoltaic Grade Silicon Nitride Powder Consumption by Region (2021-2026) & (Kiloton)

Table 15. World Photovoltaic Grade Silicon Nitride Powder Consumption Forecast by Region (2027-2032) & (Kiloton)

Table 16. World Photovoltaic Grade Silicon Nitride Powder Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Photovoltaic Grade Silicon Nitride Powder Producers in 2025

Table 18. World Photovoltaic Grade Silicon Nitride Powder Production by Manufacturer (2021-2026) & (Kiloton)

Table 19. Production Market Share of Key Photovoltaic Grade Silicon Nitride Powder Producers in 2025

Table 20. World Photovoltaic Grade Silicon Nitride Powder Average Price by Manufacturer (2021-2026) & (US\$/Kg)

Table 21. Global Photovoltaic Grade Silicon Nitride Powder Company Evaluation Quadrant

Table 22. World Photovoltaic Grade Silicon Nitride Powder Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Photovoltaic Grade Silicon Nitride Powder Production Site of Key Manufacturer

Table 24. Photovoltaic Grade Silicon Nitride Powder Market: Company Product Type Footprint

Table 25. Photovoltaic Grade Silicon Nitride Powder Market: Company Product Application Footprint

Table 26. Photovoltaic Grade Silicon Nitride Powder Competitive Factors

Table 27. Photovoltaic Grade Silicon Nitride Powder New Entrant and Capacity Expansion Plans

Table 28. Photovoltaic Grade Silicon Nitride Powder Mergers & Acquisitions Activity

Table 29. United States VS China Photovoltaic Grade Silicon Nitride Powder Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Photovoltaic Grade Silicon Nitride Powder Production Comparison, (2021 & 2025 & 2032) & (Kiloton)

Table 31. United States VS China Photovoltaic Grade Silicon Nitride Powder Consumption Comparison, (2021 & 2025 & 2032) & (Kiloton)

Table 32. United States Based Photovoltaic Grade Silicon Nitride Powder Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production (2021-2026) & (Kiloton)

Table 36. United States Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production Market Share (2021-2026)

Table 37. China Based Photovoltaic Grade Silicon Nitride Powder Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Photovoltaic Grade Silicon Nitride Powder

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production, (2021-2026) & (Kiloton)

Table 41. China Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production Market Share (2021-2026)

Table 42. Rest of World Based Photovoltaic Grade Silicon Nitride Powder Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production, (2021-2026) & (Kiloton)

Table 46. Rest of World Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production Market Share (2021-2026)

Table 47. World Photovoltaic Grade Silicon Nitride Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Photovoltaic Grade Silicon Nitride Powder Production by Type (2021-2026) & (Kiloton)

Table 49. World Photovoltaic Grade Silicon Nitride Powder Production by Type (2027-2032) & (Kiloton)

Table 50. World Photovoltaic Grade Silicon Nitride Powder Production Value by Type (2021-2026) & (USD Million)

Table 51. World Photovoltaic Grade Silicon Nitride Powder Production Value by Type (2027-2032) & (USD Million)

Table 52. World Photovoltaic Grade Silicon Nitride Powder Average Price by Type (2021-2026) & (US\$/Kg)

Table 53. World Photovoltaic Grade Silicon Nitride Powder Average Price by Type (2027-2032) & (US\$/Kg)

Table 54. World Photovoltaic Grade Silicon Nitride Powder Production Value by Phase Composition, (USD Million), 2021 & 2025 & 2032

Table 55. World Photovoltaic Grade Silicon Nitride Powder Production by Phase Composition (2021-2026) & (Kiloton)

Table 56. World Photovoltaic Grade Silicon Nitride Powder Production by Phase Composition (2027-2032) & (Kiloton)

Table 57. World Photovoltaic Grade Silicon Nitride Powder Production Value by Phase Composition (2021-2026) & (USD Million)

Table 58. World Photovoltaic Grade Silicon Nitride Powder Production Value by Phase Composition (2027-2032) & (USD Million)

Table 59. World Photovoltaic Grade Silicon Nitride Powder Average Price by Phase Composition (2021-2026) & (US\$/Kg)

Table 60. World Photovoltaic Grade Silicon Nitride Powder Average Price by Phase Composition (2027-2032) & (US\$/Kg)

Table 61. World Photovoltaic Grade Silicon Nitride Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Photovoltaic Grade Silicon Nitride Powder Production by Application (2021-2026) & (Kiloton)

Table 63. World Photovoltaic Grade Silicon Nitride Powder Production by Application (2027-2032) & (Kiloton)

Table 64. World Photovoltaic Grade Silicon Nitride Powder Production Value by Application (2021-2026) & (USD Million)

Table 65. World Photovoltaic Grade Silicon Nitride Powder Production Value by Application (2027-2032) & (USD Million)

Table 66. World Photovoltaic Grade Silicon Nitride Powder Average Price by Application (2021-2026) & (US\$/Kg)

Table 67. World Photovoltaic Grade Silicon Nitride Powder Average Price by Application (2027-2032) & (US\$/Kg)

Table 68. Hoganas Basic Information, Manufacturing Base and Competitors

Table 69. Hoganas Major Business

Table 70. Hoganas Photovoltaic Grade Silicon Nitride Powder Product and Services

Table 71. Hoganas Photovoltaic Grade Silicon Nitride Powder Production (Kiloton), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Hoganas Recent Developments/Updates

Table 73. Hoganas Competitive Strengths & Weaknesses

Table 74. AlzChem Basic Information, Manufacturing Base and Competitors

Table 75. AlzChem Major Business

Table 76. AlzChem Photovoltaic Grade Silicon Nitride Powder Product and Services

Table 77. AlzChem Photovoltaic Grade Silicon Nitride Powder Production (Kiloton), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. AlzChem Recent Developments/Updates

Table 79. AlzChem Competitive Strengths & Weaknesses

Table 80. Hebei Corefra Silicon Nitride Material Basic Information, Manufacturing Base and Competitors

Table 81. Hebei Corefra Silicon Nitride Material Major Business

Table 82. Hebei Corefra Silicon Nitride Material Photovoltaic Grade Silicon Nitride Powder Product and Services

Table 83. Hebei Corefra Silicon Nitride Material Photovoltaic Grade Silicon Nitride Powder Production (Kiloton), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Hebei Corefra Silicon Nitride Material Recent Developments/Updates

Table 85. Hebei Corefra Silicon Nitride Material Competitive Strengths & Weaknesses

Table 86. Hongwu International Group Basic Information, Manufacturing Base and Competitors

Table 87. Hongwu International Group Major Business

Table 88. Hongwu International Group Photovoltaic Grade Silicon Nitride Powder Product and Services

Table 89. Hongwu International Group Photovoltaic Grade Silicon Nitride Powder Production (Kiloton), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Hongwu International Group Recent Developments/Updates

Table 91. Hongwu International Group Competitive Strengths & Weaknesses

Table 92. Qingdao Alticera Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 93. Qingdao Alticera Advanced Materials Major Business

Table 94. Qingdao Alticera Advanced Materials Photovoltaic Grade Silicon Nitride Powder Product and Services

Table 95. Qingdao Alticera Advanced Materials Photovoltaic Grade Silicon Nitride Powder Production (Kiloton), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Qingdao Alticera Advanced Materials Recent Developments/Updates

Table 97. Qingdao Alticera Advanced Materials Competitive Strengths & Weaknesses

Table 98. Jiangxi Silicon Nitride New Material Basic Information, Manufacturing Base and Competitors

Table 99. Jiangxi Silicon Nitride New Material Major Business

Table 100. Jiangxi Silicon Nitride New Material Photovoltaic Grade Silicon Nitride Powder Product and Services

Table 101. Jiangxi Silicon Nitride New Material Photovoltaic Grade Silicon Nitride Powder Production (Kiloton), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Jiangxi Silicon Nitride New Material Recent Developments/Updates

Table 103. Jiangxi Silicon Nitride New Material Competitive Strengths & Weaknesses

Table 104. Global Key Players of Photovoltaic Grade Silicon Nitride Powder Upstream (Raw Materials)

Table 105. Global Photovoltaic Grade Silicon Nitride Powder Typical Customers

Table 106. Photovoltaic Grade Silicon Nitride Powder Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Photovoltaic Grade Silicon Nitride Powder Picture

Figure 2. World Photovoltaic Grade Silicon Nitride Powder Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Photovoltaic Grade Silicon Nitride Powder Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Photovoltaic Grade Silicon Nitride Powder Production (2021-2032) & (Kiloton)

Figure 5. World Photovoltaic Grade Silicon Nitride Powder Average Price (2021-2032) & (US\$/Kg)

Figure 6. World Photovoltaic Grade Silicon Nitride Powder Production Value Market Share by Region (2021-2032)

Figure 7. World Photovoltaic Grade Silicon Nitride Powder Production Market Share by Region (2021-2032)

Figure 8. North America Photovoltaic Grade Silicon Nitride Powder Production (2021-2032) & (Kiloton)

Figure 9. Europe Photovoltaic Grade Silicon Nitride Powder Production (2021-2032) & (Kiloton)

Figure 10. China Photovoltaic Grade Silicon Nitride Powder Production (2021-2032) & (Kiloton)

Figure 11. Japan Photovoltaic Grade Silicon Nitride Powder Production (2021-2032) & (Kiloton)

Figure 12. Photovoltaic Grade Silicon Nitride Powder Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Photovoltaic Grade Silicon Nitride Powder Consumption (2021-2032) & (Kiloton)

Figure 15. World Photovoltaic Grade Silicon Nitride Powder Consumption Market Share by Region (2021-2032)

Figure 16. United States Photovoltaic Grade Silicon Nitride Powder Consumption (2021-2032) & (Kiloton)

Figure 17. China Photovoltaic Grade Silicon Nitride Powder Consumption (2021-2032) & (Kiloton)

Figure 18. Europe Photovoltaic Grade Silicon Nitride Powder Consumption (2021-2032) & (Kiloton)

Figure 19. Japan Photovoltaic Grade Silicon Nitride Powder Consumption (2021-2032) & (Kiloton)

Figure 20. South Korea Photovoltaic Grade Silicon Nitride Powder Consumption (2021-2032) & (Kiloton)

Figure 21. ASEAN Photovoltaic Grade Silicon Nitride Powder Consumption (2021-2032) & (Kiloton)

Figure 22. India Photovoltaic Grade Silicon Nitride Powder Consumption (2021-2032) & (Kiloton)

Figure 23. Producer Shipments of Photovoltaic Grade Silicon Nitride Powder by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Photovoltaic Grade Silicon Nitride Powder Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Photovoltaic Grade Silicon Nitride Powder Markets in 2025

Figure 26. United States VS China: Photovoltaic Grade Silicon Nitride Powder Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Photovoltaic Grade Silicon Nitride Powder Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Photovoltaic Grade Silicon Nitride Powder Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production Market Share 2025

Figure 30. China Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Photovoltaic Grade Silicon Nitride Powder Production Market Share 2025

Figure 32. World Photovoltaic Grade Silicon Nitride Powder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Photovoltaic Grade Silicon Nitride Powder Production Value Market Share by Type in 2025

Figure 34. Figure 35. 1?5 ?m

Figure 36. >5 ?m

Figure 37. World Photovoltaic Grade Silicon Nitride Powder Production Market Share by Type (2021-2032)

Figure 38. World Photovoltaic Grade Silicon Nitride Powder Production Value Market Share by Type (2021-2032)

Figure 39. World Photovoltaic Grade Silicon Nitride Powder Average Price by Type (2021-2032) & (US\$/Kg)

Figure 40. World Photovoltaic Grade Silicon Nitride Powder Production Value by Phase Composition, (USD Million), 2021 & 2025 & 2032

Figure 41. World Photovoltaic Grade Silicon Nitride Powder Production Value Market

Share by Phase Composition in 2025

Figure 42. ?-Si?N?

Figure 43. ?-Si?N?

Figure 44. Other

Figure 45. World Photovoltaic Grade Silicon Nitride Powder Production Market Share by Phase Composition (2021-2032)

Figure 46. World Photovoltaic Grade Silicon Nitride Powder Production Value Market Share by Phase Composition (2021-2032)

Figure 47. World Photovoltaic Grade Silicon Nitride Powder Average Price by Phase Composition (2021-2032) & (US\$/Kg)

Figure 48. World Photovoltaic Grade Silicon Nitride Powder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 49. World Photovoltaic Grade Silicon Nitride Powder Production Value Market Share by Application in 2025

Figure 50. Crucible Inner-Wall Coating

Figure 51. Ingot Release

Figure 52. Other

Figure 53. World Photovoltaic Grade Silicon Nitride Powder Production Market Share by Application (2021-2032)

Figure 54. World Photovoltaic Grade Silicon Nitride Powder Production Value Market Share by Application (2021-2032)

Figure 55. World Photovoltaic Grade Silicon Nitride Powder Average Price by Application (2021-2032) & (US\$/Kg)

Figure 56. Photovoltaic Grade Silicon Nitride Powder Industry Chain

Figure 57. Photovoltaic Grade Silicon Nitride Powder Procurement Model

Figure 58. Photovoltaic Grade Silicon Nitride Powder Sales Model

Figure 59. Photovoltaic Grade Silicon Nitride Powder Sales Channels, Direct Sales, and Distribution

Figure 60. Methodology

Figure 61. Research Process and Data Source

I would like to order

Product name: Global Photovoltaic Grade Silicon Nitride Powder Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G976651BACB2EN.html>

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

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G976651BACB2EN.html>