

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

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Abstracts

The global Ceramic Grade Silicon Nitride market size is expected to reach \$ 173 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

In 2025, global Robot Pneumatic Gripper production reached approximately 614 tons, with an average global market price of around US\$ 170k per ton.

Ceramic grade silicon nitride (Si₃N₄) is a high-purity powder feedstock engineered for advanced structural ceramics. Key specifications include controlled α/β phase ratio, oxygen/metal impurity levels, particle size & surface area, sintering activity, and dispersibility, enabling dense sintered bodies with stable mechanical and thermo-physical properties (high strength, wear resistance, thermal-shock resistance, corrosion resistance, and electrical insulation). Typical downstream parts include bearing elements, seals, turbine/engine components, molten-metal handling parts, and electronics/packaging components.

Upstream covers silicon sources, nitrogen sources, and processing aids/equipment (silicon feedstocks, N₂/NH₃, high-temperature furnaces/reactors, classification, impurity removal, and surface treatment). Midstream powder producers control α/β phase, oxygen content, and particle-size distribution?e.g., UBE highlights its imide-decomposition route for high-purity Si₃N₄ powders. Downstream advanced-ceramics makers blend powders with sintering aids, granulate, form (pressing/CIP/injection molding), sinter (gas-pressure sintering/hot pressing/HIP), and precision-machine parts for bearings, automotive/aerospace components, molten-metal handling, and electronics. Representative powder/material players include UBE, Denka, AlzChem, H.C. Starck; representative ceramic/parts players include Kyocera, CeramTec, Morgan Advanced Materials, CoorsTek, and Toshiba.

The ceramic-grade Si₃N₄ market is characterized by steady substitution into high-end structural ceramics. Penetration continues in bearings, seals, wear parts, and high-

temperature components due to strength, wear resistance, and thermal-shock performance, while electronics and power packaging increasingly value stable insulating and thermally robust ceramic materials?pushing powders toward higher purity, tighter particle control, and stronger batch-to-batch consistency. Competition is shifting from ?making powder? to ?qualifying stable, scalable supply,? including stringent oxygen/metal impurity control, repeatable ?/? phase and PSD, and process-fit dispersibility/rheology for forming routes (injection molding, CIP, tape casting, and additive manufacturing). Key drivers include performance upgrades in high-end equipment, rising reliability/lifetime requirements, and efficiency benefits from materials substitution; headwinds are high energy/capex in powder production, yield and consistency challenges at scale, and long qualification cycles driven by narrow downstream forming/sintering windows. Overall, suppliers with robust process platforms, strong QA systems, and application co-engineering (powder + additives + process guidance) are best positioned to gain sustainable share in advanced structural ceramics.

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

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

Highlights and key features of the study

Global Ceramic Grade Silicon Nitride total production and demand, 2021-2032, (Tons)

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

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

Global Ceramic Grade Silicon Nitride consumption by region & country, CAGR, 2021-2032 & (Tons)

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

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

Global Ceramic Grade Silicon Nitride production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Ceramic Grade Silicon Nitride production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Ceramic Grade Silicon Nitride 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 UBE Industries, Denka, AlzChem Group, Kyocera, Tokuyama Group, HC Starck, Sintx Technologies, Hoganas, Tomley Hi-tech Advanced Materials, Corefra Silicon Nitride 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 Ceramic Grade Silicon Nitride 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 Ceramic Grade Silicon Nitride Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ceramic Grade Silicon Nitride Market, Segmentation by Type:

Over 90% Purity

100% Purity

Others

Global Ceramic Grade Silicon Nitride Market, Segmentation by Form:

Spherical

Stick

Flake

Global Ceramic Grade Silicon Nitride Market, Segmentation by Preparation Process:

Reaction Sintering

Hot Pressing Sintering

Others

Global Ceramic Grade Silicon Nitride Market, Segmentation by Application:

Aerospace

Semiconductor

Consumer Electronics

Others

Companies Profiled:

UBE Industries

Denka

AlzChem Group

Kyocera

Tokuyama Group

HC Starck

Sintx Technologies

Hoganas

Tomley Hi-tech Advanced Materials

Corefra Silicon Nitride Material

SINOMA Advanced Nitride Ceramics

Alticera

Aikenuo

Ceradir

Sinocera Functional Materials

Sanxin New Materials

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Ceramic Grade Silicon Nitride Demand (2021-2032)
- 2.2 World Ceramic Grade Silicon Nitride Consumption by Region
 - 2.2.1 World Ceramic Grade Silicon Nitride Consumption by Region (2021-2026)
 - 2.2.2 World Ceramic Grade Silicon Nitride Consumption Forecast by Region (2027-2032)
- 2.3 United States Ceramic Grade Silicon Nitride Consumption (2021-2032)
- 2.4 China Ceramic Grade Silicon Nitride Consumption (2021-2032)
- 2.5 Europe Ceramic Grade Silicon Nitride Consumption (2021-2032)
- 2.6 Japan Ceramic Grade Silicon Nitride Consumption (2021-2032)
- 2.7 South Korea Ceramic Grade Silicon Nitride Consumption (2021-2032)
- 2.8 ASEAN Ceramic Grade Silicon Nitride Consumption (2021-2032)
- 2.9 India Ceramic Grade Silicon Nitride Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Ceramic Grade Silicon Nitride Production Value by Manufacturer (2021-2026)
- 3.2 World Ceramic Grade Silicon Nitride Production by Manufacturer (2021-2026)
- 3.3 World Ceramic Grade Silicon Nitride Average Price by Manufacturer (2021-2026)
- 3.4 Ceramic Grade Silicon Nitride Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Ceramic Grade Silicon Nitride Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Ceramic Grade Silicon Nitride in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Ceramic Grade Silicon Nitride in 2025
- 3.6 Ceramic Grade Silicon Nitride Market: Overall Company Footprint Analysis
 - 3.6.1 Ceramic Grade Silicon Nitride Market: Region Footprint
 - 3.6.2 Ceramic Grade Silicon Nitride Market: Company Product Type Footprint
 - 3.6.3 Ceramic Grade Silicon Nitride 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: Ceramic Grade Silicon Nitride Production Value Comparison
 - 4.1.1 United States VS China: Ceramic Grade Silicon Nitride Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Ceramic Grade Silicon Nitride Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Ceramic Grade Silicon Nitride Production Comparison
 - 4.2.1 United States VS China: Ceramic Grade Silicon Nitride Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Ceramic Grade Silicon Nitride Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Ceramic Grade Silicon Nitride Consumption Comparison
 - 4.3.1 United States VS China: Ceramic Grade Silicon Nitride Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Ceramic Grade Silicon Nitride Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Ceramic Grade Silicon Nitride Manufacturers and Market

Share, 2021-2026

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

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

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

4.5 China Based Ceramic Grade Silicon Nitride Manufacturers and Market Share

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

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

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

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

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

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

4.6.3 Rest of World Based Manufacturers Ceramic Grade Silicon Nitride Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

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

5.2 Segment Introduction by Type

5.2.1 Over 90% Purity

5.2.2 100% Purity

5.2.3 Others

5.3 Market Segment by Type

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

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

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

6 MARKET ANALYSIS BY FORM

6.1 World Ceramic Grade Silicon Nitride Market Size Overview by Form: 2021 VS 2025

VS 2032

6.2 Segment Introduction by Form

6.2.1 Spherical

6.2.2 Stick

6.2.3 Flake

6.3 Market Segment by Form

6.3.1 World Ceramic Grade Silicon Nitride Production by Form (2021-2032)

6.3.2 World Ceramic Grade Silicon Nitride Production Value by Form (2021-2032)

6.3.3 World Ceramic Grade Silicon Nitride Average Price by Form (2021-2032)

7 MARKET ANALYSIS BY PREPARATION PROCESS

7.1 World Ceramic Grade Silicon Nitride Market Size Overview by Preparation Process: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Preparation Process

7.2.1 Reaction Sintering

7.2.2 Hot Pressing Sintering

7.2.3 Others

7.3 Market Segment by Preparation Process

7.3.1 World Ceramic Grade Silicon Nitride Production by Preparation Process (2021-2032)

7.3.2 World Ceramic Grade Silicon Nitride Production Value by Preparation Process (2021-2032)

7.3.3 World Ceramic Grade Silicon Nitride Average Price by Preparation Process (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Ceramic Grade Silicon Nitride Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Aerospace

8.2.2 Semiconductor

8.2.3 Consumer Electronics

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Ceramic Grade Silicon Nitride Production by Application (2021-2032)

8.3.2 World Ceramic Grade Silicon Nitride Production Value by Application (2021-2032)

8.3.3 World Ceramic Grade Silicon Nitride Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 UBE Industries

9.1.1 UBE Industries Details

9.1.2 UBE Industries Major Business

9.1.3 UBE Industries Ceramic Grade Silicon Nitride Product and Services

9.1.4 UBE Industries Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 UBE Industries Recent Developments/Updates

9.1.6 UBE Industries Competitive Strengths & Weaknesses

9.2 Denka

9.2.1 Denka Details

9.2.2 Denka Major Business

9.2.3 Denka Ceramic Grade Silicon Nitride Product and Services

9.2.4 Denka Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Denka Recent Developments/Updates

9.2.6 Denka Competitive Strengths & Weaknesses

9.3 AlzChem Group

9.3.1 AlzChem Group Details

9.3.2 AlzChem Group Major Business

9.3.3 AlzChem Group Ceramic Grade Silicon Nitride Product and Services

9.3.4 AlzChem Group Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 AlzChem Group Recent Developments/Updates

9.3.6 AlzChem Group Competitive Strengths & Weaknesses

9.4 Kyocera

9.4.1 Kyocera Details

9.4.2 Kyocera Major Business

9.4.3 Kyocera Ceramic Grade Silicon Nitride Product and Services

9.4.4 Kyocera Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Kyocera Recent Developments/Updates

9.4.6 Kyocera Competitive Strengths & Weaknesses

9.5 Tokuyama Group

9.5.1 Tokuyama Group Details

9.5.2 Tokuyama Group Major Business

- 9.5.3 Tokuyama Group Ceramic Grade Silicon Nitride Product and Services
- 9.5.4 Tokuyama Group Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 Tokuyama Group Recent Developments/Updates
- 9.5.6 Tokuyama Group Competitive Strengths & Weaknesses
- 9.6 HC Starck
 - 9.6.1 HC Starck Details
 - 9.6.2 HC Starck Major Business
 - 9.6.3 HC Starck Ceramic Grade Silicon Nitride Product and Services
 - 9.6.4 HC Starck Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 HC Starck Recent Developments/Updates
 - 9.6.6 HC Starck Competitive Strengths & Weaknesses
- 9.7 Sintx Technologies
 - 9.7.1 Sintx Technologies Details
 - 9.7.2 Sintx Technologies Major Business
 - 9.7.3 Sintx Technologies Ceramic Grade Silicon Nitride Product and Services
 - 9.7.4 Sintx Technologies Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Sintx Technologies Recent Developments/Updates
 - 9.7.6 Sintx Technologies Competitive Strengths & Weaknesses
- 9.8 Hoganas
 - 9.8.1 Hoganas Details
 - 9.8.2 Hoganas Major Business
 - 9.8.3 Hoganas Ceramic Grade Silicon Nitride Product and Services
 - 9.8.4 Hoganas Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Hoganas Recent Developments/Updates
 - 9.8.6 Hoganas Competitive Strengths & Weaknesses
- 9.9 Tomley Hi-tech Advanced Materials
 - 9.9.1 Tomley Hi-tech Advanced Materials Details
 - 9.9.2 Tomley Hi-tech Advanced Materials Major Business
 - 9.9.3 Tomley Hi-tech Advanced Materials Ceramic Grade Silicon Nitride Product and Services
 - 9.9.4 Tomley Hi-tech Advanced Materials Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Tomley Hi-tech Advanced Materials Recent Developments/Updates
 - 9.9.6 Tomley Hi-tech Advanced Materials Competitive Strengths & Weaknesses
- 9.10 Corefra Silicon Nitride Material

- 9.10.1 Corefra Silicon Nitride Material Details
- 9.10.2 Corefra Silicon Nitride Material Major Business
- 9.10.3 Corefra Silicon Nitride Material Ceramic Grade Silicon Nitride Product and Services
- 9.10.4 Corefra Silicon Nitride Material Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 Corefra Silicon Nitride Material Recent Developments/Updates
- 9.10.6 Corefra Silicon Nitride Material Competitive Strengths & Weaknesses
- 9.11 SINOMA Advanced Nitride Ceramics
 - 9.11.1 SINOMA Advanced Nitride Ceramics Details
 - 9.11.2 SINOMA Advanced Nitride Ceramics Major Business
 - 9.11.3 SINOMA Advanced Nitride Ceramics Ceramic Grade Silicon Nitride Product and Services
 - 9.11.4 SINOMA Advanced Nitride Ceramics Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 SINOMA Advanced Nitride Ceramics Recent Developments/Updates
 - 9.11.6 SINOMA Advanced Nitride Ceramics Competitive Strengths & Weaknesses
- 9.12 Alticera
 - 9.12.1 Alticera Details
 - 9.12.2 Alticera Major Business
 - 9.12.3 Alticera Ceramic Grade Silicon Nitride Product and Services
 - 9.12.4 Alticera Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Alticera Recent Developments/Updates
 - 9.12.6 Alticera Competitive Strengths & Weaknesses
- 9.13 Aikenuo
 - 9.13.1 Aikenuo Details
 - 9.13.2 Aikenuo Major Business
 - 9.13.3 Aikenuo Ceramic Grade Silicon Nitride Product and Services
 - 9.13.4 Aikenuo Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Aikenuo Recent Developments/Updates
 - 9.13.6 Aikenuo Competitive Strengths & Weaknesses
- 9.14 Ceradir
 - 9.14.1 Ceradir Details
 - 9.14.2 Ceradir Major Business
 - 9.14.3 Ceradir Ceramic Grade Silicon Nitride Product and Services
 - 9.14.4 Ceradir Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.14.5 Ceradir Recent Developments/Updates
- 9.14.6 Ceradir Competitive Strengths & Weaknesses
- 9.15 Sinocera Functional Materials
 - 9.15.1 Sinocera Functional Materials Details
 - 9.15.2 Sinocera Functional Materials Major Business
 - 9.15.3 Sinocera Functional Materials Ceramic Grade Silicon Nitride Product and Services
 - 9.15.4 Sinocera Functional Materials Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Sinocera Functional Materials Recent Developments/Updates
 - 9.15.6 Sinocera Functional Materials Competitive Strengths & Weaknesses
- 9.16 Sanxin New Materials
 - 9.16.1 Sanxin New Materials Details
 - 9.16.2 Sanxin New Materials Major Business
 - 9.16.3 Sanxin New Materials Ceramic Grade Silicon Nitride Product and Services
 - 9.16.4 Sanxin New Materials Ceramic Grade Silicon Nitride Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Sanxin New Materials Recent Developments/Updates
 - 9.16.6 Sanxin New Materials Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Ceramic Grade Silicon Nitride Industry Chain
- 10.2 Ceramic Grade Silicon Nitride Upstream Analysis
 - 10.2.1 Ceramic Grade Silicon Nitride Core Raw Materials
 - 10.2.2 Main Manufacturers of Ceramic Grade Silicon Nitride Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Ceramic Grade Silicon Nitride Production Mode
- 10.6 Ceramic Grade Silicon Nitride Procurement Model
- 10.7 Ceramic Grade Silicon Nitride Industry Sales Model and Sales Channels
 - 10.7.1 Ceramic Grade Silicon Nitride Sales Model
 - 10.7.2 Ceramic Grade Silicon Nitride Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

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

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

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

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

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

Table 6. World Ceramic Grade Silicon Nitride Production by Region (2021-2026) & (Tons)

Table 7. World Ceramic Grade Silicon Nitride Production by Region (2027-2032) & (Tons)

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

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

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

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

Table 12. Ceramic Grade Silicon Nitride Major Market Trends

Table 13. World Ceramic Grade Silicon Nitride Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Ceramic Grade Silicon Nitride Consumption by Region (2021-2026) & (Tons)

Table 15. World Ceramic Grade Silicon Nitride Consumption Forecast by Region (2027-2032) & (Tons)

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

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

Table 18. World Ceramic Grade Silicon Nitride Production by Manufacturer (2021-2026) & (Tons)

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

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

Table 21. Global Ceramic Grade Silicon Nitride Company Evaluation Quadrant

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

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

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

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

Table 26. Ceramic Grade Silicon Nitride Competitive Factors

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

Table 28. Ceramic Grade Silicon Nitride Mergers & Acquisitions Activity

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

Table 30. United States VS China Ceramic Grade Silicon Nitride Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Ceramic Grade Silicon Nitride Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

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

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

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

Table 35. United States Based Manufacturers Ceramic Grade Silicon Nitride Production (2021-2026) & (Tons)

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

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

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

Table 39. China Based Manufacturers Ceramic Grade Silicon Nitride Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Ceramic Grade Silicon Nitride Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Ceramic Grade Silicon Nitride Production Market

Share (2021-2026)

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

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

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

Table 45. Rest of World Based Manufacturers Ceramic Grade Silicon Nitride Production, (2021-2026) & (Tons)

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

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

Table 48. World Ceramic Grade Silicon Nitride Production by Type (2021-2026) & (Tons)

Table 49. World Ceramic Grade Silicon Nitride Production by Type (2027-2032) & (Tons)

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

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

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

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

Table 54. World Ceramic Grade Silicon Nitride Production Value by Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Ceramic Grade Silicon Nitride Production by Form (2021-2026) & (Tons)

Table 56. World Ceramic Grade Silicon Nitride Production by Form (2027-2032) & (Tons)

Table 57. World Ceramic Grade Silicon Nitride Production Value by Form (2021-2026) & (USD Million)

Table 58. World Ceramic Grade Silicon Nitride Production Value by Form (2027-2032) & (USD Million)

Table 59. World Ceramic Grade Silicon Nitride Average Price by Form (2021-2026) & (US\$/Ton)

Table 60. World Ceramic Grade Silicon Nitride Average Price by Form (2027-2032) & (US\$/Ton)

Table 61. World Ceramic Grade Silicon Nitride Production Value by Preparation Process, (USD Million), 2021 & 2025 & 2032

Table 62. World Ceramic Grade Silicon Nitride Production by Preparation Process (2021-2026) & (Tons)

Table 63. World Ceramic Grade Silicon Nitride Production by Preparation Process (2027-2032) & (Tons)

Table 64. World Ceramic Grade Silicon Nitride Production Value by Preparation Process (2021-2026) & (USD Million)

Table 65. World Ceramic Grade Silicon Nitride Production Value by Preparation Process (2027-2032) & (USD Million)

Table 66. World Ceramic Grade Silicon Nitride Average Price by Preparation Process (2021-2026) & (US\$/Ton)

Table 67. World Ceramic Grade Silicon Nitride Average Price by Preparation Process (2027-2032) & (US\$/Ton)

Table 68. World Ceramic Grade Silicon Nitride Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Ceramic Grade Silicon Nitride Production by Application (2021-2026) & (Tons)

Table 70. World Ceramic Grade Silicon Nitride Production by Application (2027-2032) & (Tons)

Table 71. World Ceramic Grade Silicon Nitride Production Value by Application (2021-2026) & (USD Million)

Table 72. World Ceramic Grade Silicon Nitride Production Value by Application (2027-2032) & (USD Million)

Table 73. World Ceramic Grade Silicon Nitride Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Ceramic Grade Silicon Nitride Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. UBE Industries Basic Information, Manufacturing Base and Competitors

Table 76. UBE Industries Major Business

Table 77. UBE Industries Ceramic Grade Silicon Nitride Product and Services

Table 78. UBE Industries Ceramic Grade Silicon Nitride Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. UBE Industries Recent Developments/Updates

Table 80. UBE Industries Competitive Strengths & Weaknesses

Table 81. Denka Basic Information, Manufacturing Base and Competitors

Table 82. Denka Major Business

Table 83. Denka Ceramic Grade Silicon Nitride Product and Services

Table 84. Denka Ceramic Grade Silicon Nitride Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Denka Recent Developments/Updates

Table 86. Denka Competitive Strengths & Weaknesses

Table 87. AlzChem Group Basic Information, Manufacturing Base and Competitors

Table 88. AlzChem Group Major Business

Table 89. AlzChem Group Ceramic Grade Silicon Nitride Product and Services

Table 90. AlzChem Group Ceramic Grade Silicon Nitride Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. AlzChem Group Recent Developments/Updates

Table 92. AlzChem Group Competitive Strengths & Weaknesses

Table 93. Kyocera Basic Information, Manufacturing Base and Competitors

Table 94. Kyocera Major Business

Table 95. Kyocera Ceramic Grade Silicon Nitride Product and Services

Table 96. Kyocera Ceramic Grade Silicon Nitride Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Kyocera Recent Developments/Updates

Table 98. Kyocera Competitive Strengths & Weaknesses

Table 99. Tokuyama Group Basic Information, Manufacturing Base and Competitors

Table 100. Tokuyama Group Major Business

Table 101. Tokuyama Group Ceramic Grade Silicon Nitride Product and Services

Table 102. Tokuyama Group Ceramic Grade Silicon Nitride Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Tokuyama Group Recent Developments/Updates

Table 104. Tokuyama Group Competitive Strengths & Weaknesses

Table 105. HC Starck Basic Information, Manufacturing Base and Competitors

Table 106. HC Starck Major Business

Table 107. HC Starck Ceramic Grade Silicon Nitride Product and Services

Table 108. HC Starck Ceramic Grade Silicon Nitride Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. HC Starck Recent Developments/Updates

Table 110. HC Starck Competitive Strengths & Weaknesses

Table 111. Sintx Technologies Basic Information, Manufacturing Base and Competitors

Table 112. Sintx Technologies Major Business

Table 113. Sintx Technologies Ceramic Grade Silicon Nitride Product and Services

Table 114. Sintx Technologies Ceramic Grade Silicon Nitride Production (Tons), Price

(US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Sintx Technologies Recent Developments/Updates

Table 116. Sintx Technologies Competitive Strengths & Weaknesses

Table 117. Hoganas Basic Information, Manufacturing Base and Competitors

Table 118. Hoganas Major Business

Table 119. Hoganas Ceramic Grade Silicon Nitride Product and Services

Table 120. Hoganas Ceramic Grade Silicon Nitride Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Hoganas Recent Developments/Updates

Table 122. Hoganas Competitive Strengths & Weaknesses

Table 123. Tomley Hi-tech Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 124. Tomley Hi-tech Advanced Materials Major Business

Table 125. Tomley Hi-tech Advanced Materials Ceramic Grade Silicon Nitride Product and Services

Table 126. Tomley Hi-tech Advanced Materials Ceramic Grade Silicon Nitride Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Tomley Hi-tech Advanced Materials Recent Developments/Updates

Table 128. Tomley Hi-tech Advanced Materials Competitive Strengths & Weaknesses

Table 129. Corefra Silicon Nitride Material Basic Information, Manufacturing Base and Competitors

Table 130. Corefra Silicon Nitride Material Major Business

Table 131. Corefra Silicon Nitride Material Ceramic Grade Silicon Nitride Product and Services

Table 132. Corefra Silicon Nitride Material Ceramic Grade Silicon Nitride Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Corefra Silicon Nitride Material Recent Developments/Updates

Table 134. Corefra Silicon Nitride Material Competitive Strengths & Weaknesses

Table 135. SINOMA Advanced Nitride Ceramics Basic Information, Manufacturing Base and Competitors

Table 136. SINOMA Advanced Nitride Ceramics Major Business

Table 137. SINOMA Advanced Nitride Ceramics Ceramic Grade Silicon Nitride Product and Services

Table 138. SINOMA Advanced Nitride Ceramics Ceramic Grade Silicon Nitride Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. SINOMA Advanced Nitride Ceramics Recent Developments/Updates

Table 140. SINOMA Advanced Nitride Ceramics Competitive Strengths & Weaknesses

Table 141. Alticera Basic Information, Manufacturing Base and Competitors

Table 142. Alticera Major Business

Table 143. Alticera Ceramic Grade Silicon Nitride Product and Services

Table 144. Alticera Ceramic Grade Silicon Nitride Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Alticera Recent Developments/Updates

Table 146. Alticera Competitive Strengths & Weaknesses

Table 147. Aikenuo Basic Information, Manufacturing Base and Competitors

Table 148. Aikenuo Major Business

Table 149. Aikenuo Ceramic Grade Silicon Nitride Product and Services

Table 150. Aikenuo Ceramic Grade Silicon Nitride Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Aikenuo Recent Developments/Updates

Table 152. Aikenuo Competitive Strengths & Weaknesses

Table 153. Ceradir Basic Information, Manufacturing Base and Competitors

Table 154. Ceradir Major Business

Table 155. Ceradir Ceramic Grade Silicon Nitride Product and Services

Table 156. Ceradir Ceramic Grade Silicon Nitride Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Ceradir Recent Developments/Updates

Table 158. Ceradir Competitive Strengths & Weaknesses

Table 159. Sinocera Functional Materials Basic Information, Manufacturing Base and Competitors

Table 160. Sinocera Functional Materials Major Business

Table 161. Sinocera Functional Materials Ceramic Grade Silicon Nitride Product and Services

Table 162. Sinocera Functional Materials Ceramic Grade Silicon Nitride Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Sinocera Functional Materials Recent Developments/Updates

Table 164. Sinocera Functional Materials Competitive Strengths & Weaknesses

Table 165. Sanxin New Materials Basic Information, Manufacturing Base and Competitors

Table 166. Sanxin New Materials Major Business

Table 167. Sanxin New Materials Ceramic Grade Silicon Nitride Product and Services

Table 168. Sanxin New Materials Ceramic Grade Silicon Nitride Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 169. Sanxin New Materials Recent Developments/Updates

Table 170. Sanxin New Materials Competitive Strengths & Weaknesses

Table 171. Global Key Players of Ceramic Grade Silicon Nitride Upstream (Raw Materials)

Table 172. Global Ceramic Grade Silicon Nitride Typical Customers

Table 173. Ceramic Grade Silicon Nitride Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Ceramic Grade Silicon Nitride Picture

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

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

Figure 4. World Ceramic Grade Silicon Nitride Production (2021-2032) & (Tons)

Figure 5. World Ceramic Grade Silicon Nitride Average Price (2021-2032) & (US\$/Ton)

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

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

Figure 8. North America Ceramic Grade Silicon Nitride Production (2021-2032) & (Tons)

Figure 9. Europe Ceramic Grade Silicon Nitride Production (2021-2032) & (Tons)

Figure 10. China Ceramic Grade Silicon Nitride Production (2021-2032) & (Tons)

Figure 11. Japan Ceramic Grade Silicon Nitride Production (2021-2032) & (Tons)

Figure 12. Ceramic Grade Silicon Nitride Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Ceramic Grade Silicon Nitride Consumption (2021-2032) & (Tons)

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

Figure 16. United States Ceramic Grade Silicon Nitride Consumption (2021-2032) & (Tons)

Figure 17. China Ceramic Grade Silicon Nitride Consumption (2021-2032) & (Tons)

Figure 18. Europe Ceramic Grade Silicon Nitride Consumption (2021-2032) & (Tons)

Figure 19. Japan Ceramic Grade Silicon Nitride Consumption (2021-2032) & (Tons)

Figure 20. South Korea Ceramic Grade Silicon Nitride Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Ceramic Grade Silicon Nitride Consumption (2021-2032) & (Tons)

Figure 22. India Ceramic Grade Silicon Nitride Consumption (2021-2032) & (Tons)

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

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

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

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

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

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

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

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

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

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

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

Figure 34. Over 90% Purity

Figure 35. 100% Purity

Figure 36. Others

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

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

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

Figure 40. World Ceramic Grade Silicon Nitride Production Value by Form, (USD Million), 2021 & 2025 & 2032

Figure 41. World Ceramic Grade Silicon Nitride Production Value Market Share by Form in 2025

Figure 42. Spherical

Figure 43. Stick

Figure 44. Flake

Figure 45. World Ceramic Grade Silicon Nitride Production Market Share by Form (2021-2032)

Figure 46. World Ceramic Grade Silicon Nitride Production Value Market Share by Form (2021-2032)

Figure 47. World Ceramic Grade Silicon Nitride Average Price by Form (2021-2032) & (US\$/Ton)

Figure 48. World Ceramic Grade Silicon Nitride Production Value by Preparation

Process, (USD Million), 2021 & 2025 & 2032

Figure 49. World Ceramic Grade Silicon Nitride Production Value Market Share by Preparation Process in 2025

Figure 50. Reaction Sintering

Figure 51. Hot Pressing Sintering

Figure 52. Others

Figure 53. World Ceramic Grade Silicon Nitride Production Market Share by Preparation Process (2021-2032)

Figure 54. World Ceramic Grade Silicon Nitride Production Value Market Share by Preparation Process (2021-2032)

Figure 55. World Ceramic Grade Silicon Nitride Average Price by Preparation Process (2021-2032) & (US\$/Ton)

Figure 56. World Ceramic Grade Silicon Nitride Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Ceramic Grade Silicon Nitride Production Value Market Share by Application in 2025

Figure 58. Aerospace

Figure 59. Semiconductor

Figure 60. Consumer Electronics

Figure 61. Others

Figure 62. World Ceramic Grade Silicon Nitride Production Market Share by Application (2021-2032)

Figure 63. World Ceramic Grade Silicon Nitride Production Value Market Share by Application (2021-2032)

Figure 64. World Ceramic Grade Silicon Nitride Average Price by Application (2021-2032) & (US\$/Ton)

Figure 65. Ceramic Grade Silicon Nitride Industry Chain

Figure 66. Ceramic Grade Silicon Nitride Procurement Model

Figure 67. Ceramic Grade Silicon Nitride Sales Model

Figure 68. Ceramic Grade Silicon Nitride Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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