

# Global Silicon Nitride Powder Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Silicon Nitride Powder market size was valued at US\$ 86.5 million in 2024 and is forecast to a readjusted size of USD 102 million by 2031 with a CAGR of 2.4% during review period.

Silicon nitride ( $\text{Si}_3\text{N}_4$ ) is one of the purely covalent nitrides. Like all nitrides, it is characterized by a high degree of thermal stability and exceptional chemical stability. Its other properties make it the top representative of the nitride ceramics.

Nitride powder is a raw material main for technical ceramics and for photovoltaic industry. Silicon nitride powder also was used as materials for resin filling: Wear resistant fillers, thermal conductive fillers, etc.

At present, the silicon nitride powder industry is a high degree of concentration of the industry. This is a technology-intensive industry. Top 4 has an absolute market share. Top 4 hold more than 80% market share. UBE, AlzChem, Yantai Tomley Hi-tech Advanced Materials and H.C. Starck can produce all grades of silicon nitride powder. In the solar industry, the Chinese market is highly competitive. China is the world's largest solar market. At present, the price of Yantai Tomley Hi-tech Advanced Materials photovoltaic grade silicon nitride powder is low. Yantai Tomley Hi-tech Advanced Materials hold China's absolute market share. AlzChem developed more rapidly. At present, AlzChem is China's second largest supplier.

This report is a detailed and comprehensive analysis for global Silicon Nitride Powder market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this

report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Silicon Nitride Powder market size and forecasts, in consumption value (\$ Million), sales quantity (MT), and average selling prices (USD/MT), 2020-2031

Global Silicon Nitride Powder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MT), and average selling prices (USD/MT), 2020-2031

Global Silicon Nitride Powder market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MT), and average selling prices (USD/MT), 2020-2031

Global Silicon Nitride Powder market shares of main players, shipments in revenue (\$ Million), sales quantity (MT), and ASP (USD/MT), 2020-2025

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Silicon Nitride Powder

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Silicon Nitride Powder market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include UBE, AlzChem, Yantai Tomley Hi-tech Advanced Materials, H.C. Starck, Denka, Hebei Corefra Silicon Nitride Material, VestaSi, Jiangxi Sanxin Hi-Tech Ceramics, Hongchen Technology, Combustion Synthesis, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

## Market Segmentation

Silicon Nitride Powder market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Photovoltaic Grade Silicon Nitride

Ceramic Grade Silicon Nitride

LED Grade Silicon Nitride

### Market segment by Application

Solar Energy Industry

Silicon Nitride Ceramics and Components

LED Industry

Others

### Major players covered

UBE

AlzChem

Yantai Tomley Hi-tech Advanced Materials

H.C. Starck

Denka

Hebei Corefra Silicon Nitride Material

VestaSi

Jiangxi Sanxin Hi-Tech Ceramics

Hongchen Technology

Combustion Synthesis

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Silicon Nitride Powder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Nitride Powder, with price, sales quantity, revenue, and global market share of Silicon Nitride Powder from 2020 to 2025.

Chapter 3, the Silicon Nitride Powder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Nitride Powder breakdown data are shown at the regional level,

to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Silicon Nitride Powder market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Silicon Nitride Powder.

Chapter 14 and 15, to describe Silicon Nitride Powder sales channel, distributors, customers, research findings and conclusion.

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