

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

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Abstracts

The global Silicon Nitride Powder market size is expected to reach \$ 145 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Silicon nitride powder is gray, white or off-white. It is a superhard material with lubricity and wear resistance. It is an atomic crystal and resistant to oxidation at high temperatures. It can also resist thermal shocks and will not break even if it is heated to more than 1000°C in air, cooled rapidly and then heated rapidly. In 2024, global silicon nitride powder production reached approximately 1,886.7 MT, with an average global market price of around US\$ 44.53 per kg.

Silicon nitride powder is mainly used in the ceramics and photovoltaic industries. In recent years, as polysilicon production processes have become more efficient, demand for silicon nitride in photovoltaics has declined. Meanwhile, many Chinese companies have started developing the entire silicon nitride ceramics industry chain, with some producing silicon nitride powder for their own use. Driven by the rapid expansion of silicon nitride ceramic production capacity, the domestic market for silicon nitride powder in China has grown significantly. Globally, demand is primarily fueled by the expanding market for silicon nitride ceramics and the increasing use of silicon nitride ceramic substrates in Japan. These ceramics and substrates are particularly suitable for applications in new energy vehicles. With properties such as high flexural strength, fracture toughness, creep resistance, hardness, and wear resistance, silicon nitride is regarded as one of the highest-performing materials in the structural ceramics family. The growing production of ceramic substrates is expected to become the fastest-growing application area for silicon nitride powder.

This report studies the global Silicon Nitride Powder production, demand, key

manufacturers, and key regions.

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

Highlights and key features of the study

Global Silicon Nitride Powder total production and demand, 2021-2032, (MT)

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

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

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

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

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

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

Global Silicon Nitride Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MT)

This report profiles key players in the global 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 UBE, AlzChem, Qingdao Alticera Advanced Materials, H?gan?s, Denka, Hebei High Rich Silicon Nitride Material, Exonor New Materials, Xinjiang Jingshuo New Materials, 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 Silicon Nitride Powder market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Nitride Powder Market, Segmentation by Type:

Photovoltaic Grade

Ceramic Grade

Global Silicon Nitride Powder Market, Segmentation by Powder Type:

3-Si₃N₄ Powder

2-Si₃N₄ Powder

Others

Global Silicon Nitride Powder Market, Segmentation by Particle Size:

Nano-scale (10 ?m)

Global Silicon Nitride Powder Market, Segmentation by Purity Level:

High Purity (>99%)

Medium Purity (97–99%)

Technical Grade (90–97%)

Low Purity (

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