

Global Nano Silica Polishing Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nano Silica Polishing Powder market size is expected to reach \$ 373 million by 2032, rising at a market growth of 3.2% CAGR during the forecast period (2026-2032).

In 2025, the production volume of nano-silica polishing powder is projected to reach 5,485 tons, with an average selling price of \$53,125 per ton. The global annual production capacity for nano-silica polishing powder stands at approximately 8,000 tons, with a gross margin of approximately 31.2%. Nano-silica polishing powder is a particulate material—comprising particles ranging from the micron to the nanoscale—primarily composed of silicon dioxide (SiO₂), and specifically designed for high-precision surface polishing and grinding applications. It typically consists of a mixture of fine particles with a size distribution spanning the nano- to micron range; combined with appropriate particle morphology, chemical stability, and chemical treatments (such as surface modification and particle size classification), it achieves highly efficient polishing results. The upstream raw materials for nano-silica polishing powder include silica source materials, surface modifiers and dispersion aids, stabilizers, and similar inputs. The midstream segment consists of the manufacturers of nano-silica polishing powder, while the downstream market is primarily concentrated in industries such as semiconductors, optical devices, and gemstone processing.

Currently, the market for nano-silica polishing powder is undergoing a phase of continuous expansion, driven primarily by the robust and growing demand for surface planarization and ultra-precision processing within high-end manufacturing sectors—including semiconductors, integrated circuits, optical glass, and precision ceramics. This trend is particularly pronounced in the semiconductor industry; as process nodes evolve toward 5nm and below, Chemical Mechanical Polishing (CMP)

processes are imposing increasingly stringent technical requirements regarding the particle size uniformity, purity, and dispersibility of nano-silica polishing powders. This has, in turn, driven a steady increase in the consumption of this material across polishing applications involving wafer substrates, metal interconnect layers, and oxide dielectric layers. Furthermore, demand is simultaneously surging in niche segments such as LED substrate processing, precision polishing for optical lenses, and the processing of glass cover panels for consumer electronics. Moving forward, the market is poised to continue its evolution toward higher purity levels (>99.99%), narrower particle size distributions, and advanced functional surface modifications.

This report studies the global Nano Silica Polishing Powder production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Nano Silica Polishing Powder total production and demand, 2021-2032, (Tons)

Global Nano Silica Polishing Powder total production value, 2021-2032, (USD Million)

Global Nano Silica Polishing Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Nano Silica Polishing Powder consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Nano Silica Polishing Powder domestic production, consumption, key domestic manufacturers and share

Global Nano Silica Polishing Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Nano Silica Polishing Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Nano Silica Polishing Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Nano Silica Polishing 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 KOSNANO, NYACOL, American Elements,

Yiwei, Beijing Deke Daojin Science And Technology, HENGNA, Suzhou Youzirconium Nanomaterials, YIFU NAMI, Xuancheng Jingrui New Materials, Hangzhou Jiupeng 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 Nano Silica Polishing Powder 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 Nano Silica Polishing Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nano Silica Polishing Powder Market, Segmentation by Type:

Purity 99.5%+

Purity 99.9%+

Others

Global Nano Silica Polishing Powder Market, Segmentation by Particle Size:

20nm

50nm

Others

Global Nano Silica Polishing Powder Market, Segmentation by Preparation Process:

Gas Phase Method

Liquid Phase Method

Solid Phase Method

Others

Global Nano Silica Polishing Powder Market, Segmentation by Application:

Semiconductor

Optical Devices

Gemstone Processing

Metal Processing

Others

Companies Profiled:

KOSNANO

NYACOL

American Elements

Yiwei

Beijing Deke Daojin Science And Technology

HENGNA

Suzhou Youzirconium Nanomaterials

YIFU NAMI

Xuancheng Jingrui New Materials

Hangzhou Jiupeng New Materials

Zhejiang Zhiti Nanomicro New Material

Shanghai Chaowei Nanotechnology

Hongwu Enterprise Group

LINGWE

Key Questions Answered:

1. How big is the global Nano Silica Polishing Powder market?
2. What is the demand of the global Nano Silica Polishing Powder market?
3. What is the year over year growth of the global Nano Silica Polishing Powder market?
4. What is the production and production value of the global Nano Silica Polishing Powder market?
5. Who are the key producers in the global Nano Silica Polishing Powder market?

6. What are the growth factors driving the market demand?

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