

Global High-Pressure High-Temperature Nanodiamond Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High-Pressure High-Temperature Nanodiamond Powder market size is expected to reach \$ 109 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

In 2025, global High-Pressure High-Temperature Nanodiamond Powder production reached 105.6 k kg, the average price was 712 US\$/kg.

High-Pressure High-Temperature Nanodiamond Powder is a nanoscale powder material produced by synthesizing diamond crystals under high pressure, high temperature, and metal catalysts, based on graphite, diamond micron powder, or other carbon-containing raw materials. The resulting crystals are then crushed, graded, purified, and surface-treated. It typically possesses a relatively complete diamond lattice, high crystallinity, excellent hardness, wear resistance, thermal conductivity, and chemical stability. Compared to detonation-processed nanodiamonds, it has a relatively larger particle size and easier-to-control particle distribution, and usually fewer structural defects and surface impurities. This product is mainly used in ultra-precision grinding and polishing, hard coatings, composite materials, thermally conductive fillers, lubricants, and electronic manufacturing. Its performance is primarily affected by average particle size, particle size distribution, purity, crystal morphology, degree of agglomeration, and residual metal content.

The global market for High-Pressure High-Temperature Nanodiamond Powder is in a phase of steady expansion, with demand mainly coming from precision polishing of semiconductor wafers and optical components, cemented carbide processing, wear-resistant coatings, thermally conductive composite materials, and electronic

manufacturing. The Asia-Pacific region, relying on a relatively complete synthetic diamond, electronics, and precision machining industrial chain, has become the main production and consumption area. North America and Europe focus on high-purity, controllable particle size, and electronic, medical, and research-grade products. Other regions mainly rely on imports and traditional grinding applications. In the future, the industry will develop towards ultra-fine particle size, narrow distribution, low metal residue, surface functionalization, and highly stable dispersions, expanding into advanced packaging, diamond film nucleation, quantum devices, and high thermal conductivity materials. Major obstacles include high investment and energy consumption in high-voltage equipment, difficulty in nano-scale crushing and classification, particle agglomeration, insufficient batch consistency, and increasing environmental and safety requirements. Based on estimates considering raw materials, equipment depreciation, purification and classification, and sales structure, the industry's average gross profit margin is approximately 30%-50%, with lower margins for ordinary grinding-grade products and higher margins for high-purity, customized particle size, and surface-modified products. The global nanodiamond market continues to grow rapidly, with electronic, coating, and high-performance material applications being the main driving forces.

This report studies the global High-Pressure High-Temperature Nanodiamond Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-Pressure High-Temperature Nanodiamond 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 High-Pressure High-Temperature Nanodiamond Powder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-Pressure High-Temperature Nanodiamond Powder total production and demand, 2021-2032, (kg)

Global High-Pressure High-Temperature Nanodiamond Powder total production value, 2021-2032, (USD Million)

Global High-Pressure High-Temperature Nanodiamond Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global High-Pressure High-Temperature Nanodiamond Powder consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: High-Pressure High-Temperature Nanodiamond Powder domestic production, consumption, key domestic manufacturers and share

Global High-Pressure High-Temperature Nanodiamond Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global High-Pressure High-Temperature Nanodiamond Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global High-Pressure High-Temperature Nanodiamond Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global High-Pressure High-Temperature Nanodiamond 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 PlasmaChem GmbH, Adamas Nanotechnologies, Carbodeon Ltd, Daicel Corporation, Pureon, Ray Techniques, Sint, Engis Corporation, Saint-Gobain, GRISH, 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 High-Pressure High-Temperature Nanodiamond Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) 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 High-Pressure High-Temperature Nanodiamond Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-Pressure High-Temperature Nanodiamond Powder Market, Segmentation by Type:

30-50nm

80-100nm

Global High-Pressure High-Temperature Nanodiamond Powder Market, Segmentation by Raw Materials:

Polycrystalline Diamond Powder

Monocrystalline Diamond Powder

Global High-Pressure High-Temperature Nanodiamond Powder Market, Segmentation by Shape:

Spherical and Near-Spherical Diamond Powder

Angular Diamond Powder

Others

Global High-Pressure High-Temperature Nanodiamond Powder Market, Segmentation

by Application:

Electroless Plating

Lubricating Oil

Grinding & Polishing

Medical

Rubber Additives

Catalyst

Others

Companies Profiled:

PlasmaChem GmbH

Adamas Nanotechnologies

Carbodeon Ltd

Daicel Corporation

Pureon

Ray Techniques

Sinta

Engis Corporation

Saint-Gobain

GRISH

Union Diamond

Key Questions Answered:

1. How big is the global High-Pressure High-Temperature Nanodiamond Powder market?
2. What is the demand of the global High-Pressure High-Temperature Nanodiamond Powder market?
3. What is the year over year growth of the global High-Pressure High-Temperature Nanodiamond Powder market?
4. What is the production and production value of the global High-Pressure High-Temperature Nanodiamond Powder market?
5. Who are the key producers in the global High-Pressure High-Temperature Nanodiamond Powder market?
6. What are the growth factors driving the market demand?

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