

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

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Abstracts

The global Nano Diamond Powder market size is expected to reach \$ 138 million by 2032, rising at a market growth of 4.8% CAGR during the forecast period (2026-2032).

In 2025, global Nano Diamond Powder production reached 152.3 k kg, the average price was 633 US\$/kg. Nano diamond powder is an ultrafine powder material with diamond as the main crystalline phase and a particle size ranging from nanometer to submicron. It can be prepared through processes such as high-temperature and high-pressure synthesis, detonation synthesis, chemical vapor deposition post-treatment, or diamond particle crushing and classification. This material possesses extremely high hardness, excellent wear resistance, good thermal conductivity, chemical stability, and a large specific surface area. Its dispersibility and interfacial bonding properties can be improved through carboxylation, hydroxylation, amination, or polymer coating. Its main applications are precision grinding and polishing of semiconductor wafers, optical glass, ceramics, and cemented carbides. It can also be used in wear-resistant coatings, lubricants, thermally conductive composite materials, electronic packaging, biomedicine, and scientific research. Product performance typically depends on average particle size, particle size distribution, purity, crystal structure, surface functional groups, degree of agglomeration, and metal impurity content.

The global Nano Diamond Powder market is expanding from traditional grinding and polishing materials to high-performance functional fillers and advanced nanomaterials. The Asia-Pacific region, leveraging its semiconductor, optics, cemented carbide, and precision manufacturing supply chains, has become a major production and consumption area. North America and Europe focus on high purity, surface modification, biomedicine, quantum sensing, and high-end electronic applications. Other regions still primarily rely on imported products and general industrial processing needs.

Current market demand mainly comes from wafer polishing, wear-resistant coatings, lubrication modification, thermally conductive composite materials, and electronic devices. Future development will focus on smaller particle sizes, narrower particle size distributions, lower agglomeration, lower metal residues, and stable dispersions. Industry obstacles include high production and purification costs, difficulty in controlling particle size and batch consistency, easy agglomeration of nanoparticles, long downstream validation cycles, and increasingly stringent environmental health and safety regulations. Based on a comprehensive product structure of general grinding grades, high-purity grades, modified grades, and dispersions, the industry's average gross profit margin is estimated at approximately 30%-50%, with standard industrial-grade products having relatively lower margins and high-purity, customized, and surface-functionalized products typically having higher margins.

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

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

Highlights and key features of the study

Global Nano Diamond Powder total production and demand, 2021-2032, (kg)

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

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

Global Nano Diamond Powder consumption by region & country, CAGR, 2021-2032 & (kg)

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

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

Global Nano Diamond Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Nano Diamond Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Nano Diamond 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 Nano Diamond 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 Nano Diamond Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nano Diamond Powder Market, Segmentation by Type:

(2N) 99% Nano Diamond Powder

(3N) 99.9% Nano Diamond Powder

(4N) 99.99% Nano Diamond Powder

(5N) 99.999% Nano Diamond Powder

Global Nano Diamond Powder Market, Segmentation by Particle Size:

Particle Size $\leq$ 5 nm

Particle Size 5-20 nm

Particle Size $\geq$ 20 nm

Global Nano Diamond Powder Market, Segmentation by Preparation Process:

Detonation Method

High Temperature and High Pressure Method

Others

Global Nano Diamond Powder Market, Segmentation by Application:

Quartz

Optical Glass

Semiconductor

Alloys and Metals

Integrated Circuit

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 Nano Diamond Powder market?
2. What is the demand of the global Nano Diamond Powder market?
3. What is the year over year growth of the global Nano Diamond Powder market?
4. What is the production and production value of the global Nano Diamond Powder market?
5. Who are the key producers in the global Nano Diamond Powder market?
6. What are the growth factors driving the market demand?

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