

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

<https://marketpublishers.com/r/GA2853D4FBEEEN.html>

Date: July 2026

Pages: 128

Price: US\$ 4,480.00 (Single User License)

ID: GA2853D4FBEEEN

Abstracts

The global Nanodiamond 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 Nanodiamond Powder production reached 152.3 k kg, the average price was 633 US\$/kg. Nanodiamond powder refers to ultrafine carbon materials with particle sizes typically in the nanoscale and a diamond crystal structure as the main component. It can be prepared through processes such as detonation, high-temperature and high-pressure methods, chemical vapor deposition, or the crushing and refining of bulk diamond. It possesses extremely high hardness, good wear resistance, high thermal conductivity, chemical stability, and a large specific surface area. The surface can also be modified with functional groups such as carboxyl and hydroxyl groups, thereby improving dispersibility and interfacial bonding. Nanodiamond powder is mainly used in ultra-precision grinding and polishing, wear-resistant coatings, lubricants, composite materials, thermally conductive materials, electronic devices, and biomedical research. Its performance is generally affected by factors such as particle size and distribution, purity, crystal structure, surface functional groups, degree of agglomeration, and the content of metallic impurities.

The global nanodiamond powder market is expanding from traditional abrasive and polishing materials to high-performance functional materials, with demand primarily driven by precision manufacturing, wear-resistant coatings, lubrication modification, electronic heat dissipation, composite materials, and biomedical research. North America and Europe are more mature in high-end R&D, medical applications, and advanced materials; the Asia-Pacific region, relying on its electronics manufacturing, semiconductor, automotive, and precision machining supply chains, is experiencing rapid growth in both production capacity and consumption; other regions still rely mainly

on imports and basic industrial applications. Future products will develop towards uniform particle size, ultra-high purity, low agglomeration, surface functionalization, and customized dispersions, gradually entering emerging fields such as batteries, quantum sensing, and drug delivery. Industry obstacles mainly include high production and purification costs, insufficient batch stability, easy agglomeration of nanoparticles, long application certification cycles, and potential environmental and biosafety risks. Due to significant differences in product specifications and applications, the industry's average gross profit margin is estimated to be approximately 30%-50%, with relatively lower margins for ordinary abrasive powders and higher margins for high-purity, surface-modified, and biomedical-grade products.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nanodiamond Powder Market, Segmentation by Type:

10-30nm

30-50nm

50-100nm

Others

Global Nanodiamond Powder Market, Segmentation by Surface Treatment Methods:

Unmodified Nanodiamond Powder

Carboxylated Nanodiamond Powder

Hydrated Nanodiamond Powder

Aminated Nanodiamond Powder

Others

Global Nanodiamond Powder Market, Segmentation by Process:

Detonation Method

High Temperature and High Pressure Method

Others

Global Nanodiamond Powder Market, Segmentation by Application:

Polishing Compositions

Lubricants

Composite Material

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

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