

Global Nanodiamond Powder Market Growth 2026-2032

<https://marketpublishers.com/r/G65028D6593CEN.html>

Date: July 2026

Pages: 120

Price: US\$ 3,660.00 (Single User License)

ID: G65028D6593CEN

Abstracts

The global Nanodiamond Powder market size is predicted to grow from US\$ 94.31 million in 2025 to US\$ 133 million in 2032; it is expected to grow at a CAGR of 5.1% from 2026 to 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.

LP Information, Inc. (LPI) 's newest research report, the "Nanodiamond Powder Industry Forecast" looks at past sales and reviews total world Nanodiamond Powder sales in 2025, providing a comprehensive analysis by region and market sector of projected Nanodiamond Powder sales for 2026 through 2032. With Nanodiamond Powder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Nanodiamond Powder industry.

This Insight Report provides a comprehensive analysis of the global Nanodiamond Powder landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Nanodiamond Powder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nanodiamond Powder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nanodiamond Powder and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Nanodiamond Powder.

This report presents a comprehensive overview, market shares, and growth opportunities of Nanodiamond Powder market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

10-30nm

30-50nm

50-100nm

Others

Segmentation by Surface Treatment Methods:

Unmodified Nanodiamond Powder

Carboxylated Nanodiamond Powder

Hydrated Nanodiamond Powder

Aminated Nanodiamond Powder

Others

Segmentation by Process:

Detonation Method

High Temperature and High Pressure Method

Others

Segmentation by Application:

Polishing Compositions

Lubricants

Composite Material

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

PlasmaChem GmbH

Adamas Nanotechnologies

Carbodeon Ltd

Daicel Corporation

Pureon

Ray Techniques

Sinta

Engis Corporation

Saint-Gobain

GRISH

Union Diamond

Key Questions Addressed in this Report

What is the 10-year outlook for the global Nanodiamond Powder market?

What factors are driving Nanodiamond Powder market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Nanodiamond Powder market opportunities vary by end market size?

How does Nanodiamond Powder break out by Type, by Application?

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