

Global Hexagonal Boron Nitride Powder Market Growth 2026-2032

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Abstracts

The global Hexagonal Boron Nitride Powder market size is predicted to grow from US\$ 4822 million in 2025 to US\$ 11131 million in 2032; it is expected to grow at a CAGR of 12.8% from 2026 to 2032.

In 2025, global sales of hexagonal boron nitride powder reached 26,500 tons, with an average selling price of RMB 186,000 per ton. Hexagonal boron nitride powder is a high-performance functional powder material with a layered crystal structure, possessing excellent thermal stability, extremely high thermal conductivity, good electrical insulation, chemical inertness, and lubricity. It is widely used in high-temperature lubricating materials, heat dissipation fillers for electronic components, refractory materials, ceramic reinforcing fillers, and composite materials. Global total production capacity is approximately 31,000 tons per year, with an overall gross profit margin of approximately 52%. Upstream raw materials mainly include boron sources (boron ore concentrate or boric acid), nitrogen, heat treatment additives, and high-temperature processing equipment. Boron sources and energy consumption account for the largest proportion of material consumption. Downstream suppliers mainly include electronics and semiconductor manufacturers, automotive and aerospace heat dissipation material suppliers, ceramic and refractory material companies, and high-end lubricant manufacturers. With the development of 5G communication, artificial intelligence, and high-performance power devices, the demand for high thermal conductivity and high electrical insulation materials is growing rapidly, driving the expansion of h-BN powder applications in heat dissipation solutions. Meanwhile, the continued demand for efficient thermal management materials in new energy vehicles and power electronic systems is further expanding the market. Future developments focus on nanoscale h-BN powder, high thermal conductivity composite materials, and deep integration with advanced ceramics and polymer systems to meet higher demands for thermal management and

structural material performance. Business opportunities primarily come from the rapid growth in electronic packaging, power modules, new energy vehicles, and high-end manufacturing.

The hexagonal boron nitride powder market is in a period of rapid growth, driven primarily by technological upgrades in electronic thermal management, new energy vehicles, power electronics, and high-end composite materials. As one of the few inorganic materials possessing both high thermal conductivity and electrical insulation properties, hexagonal boron nitride is finding increasing applications in high-power device heat dissipation fillers, thermal greases, thermal pads, and encapsulation resins. Its value is particularly increasing in IGBT modules, 5G base stations, power systems, and high-performance chip heat dissipation scenarios. Compared to traditional fillers such as alumina and aluminum nitride, hexagonal boron nitride offers unique advantages in lubricity and chemical stability, maintaining stable demand in high-temperature release agents, refractory materials, and specialty lubricants.

From a competitive perspective, the market is shifting from general-grade products to high-purity, controllable flake size, nanoscale, and surface-modified products. The main technological barriers lie in high-temperature synthesis process control, crystal structure stability, and particle size distribution consistency. Looking ahead, with the increasing power density of third-generation semiconductors, energy storage systems, and new energy vehicles, the demand for high thermal conductivity insulating materials will continue to rise, driving the development of hexagonal boron nitride powder towards high-end and functional applications. Simultaneously, integrated composite material solutions and synergistic design with resin systems will become key to differentiated competition for companies. Overall, this market possesses high added value and technological barriers, with growth driven primarily by 'high-end substitution + performance upgrades,' indicating broad medium- to long-term development potential.

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

This Insight Report provides a comprehensive analysis of the global Hexagonal Boron Nitride 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 Hexagonal Boron Nitride Powder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Hexagonal Boron Nitride Powder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Hexagonal Boron Nitride 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 Hexagonal Boron Nitride Powder.

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

Segmentation by Type:

Purity: 95%~99%

Purity: >99.5%

Segmentation by Specifications:

Specifications: 50-500 nm

Specifications: 0.5-3 μm

Others

Segmentation by Structure:

Structure: Plate-like

Structure: Spherical

Others

Segmentation by Application:

Electronics

Industrial Lubrication

Automobile

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.

Resonac

Denka Company Limited

HENZE BNP

Ossila

H?gan?s AB

Grolltex Inc

Momentive Technologies

DANPENG

SAT Nano Technology Material Co.,Ltd

Stanford Advanced Materials

SHENGYANG

FUNCMATER

DEFUPENG

HONGWU

Zibo Kevins Ceramic Materials Co.,Ltd

Key Questions Addressed in this Report

What is the 10-year outlook for the global Hexagonal Boron Nitride Powder market?

What factors are driving Hexagonal Boron Nitride Powder market growth, globally and by region?

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

How do Hexagonal Boron Nitride Powder market opportunities vary by end market size?

How does Hexagonal Boron Nitride Powder break out by Type, by Application?

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