

Global Boron Nitride Whisker Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G5932C65CA21EN.html>

Date: January 2026

Pages: 88

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

ID: G5932C65CA21EN

Abstracts

The global Boron Nitride Whisker market size is expected to reach \$ 52.16 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

In 2025, global boron nitride whisker production was approximately 220 tons, with an average selling price of about US\$143 per kilogram. The scale of single-line production capacity varies depending on the production process and investment scale. The average gross profit margin is approximately 25-35%. Boron nitride whiskers are a special material composed of crystalline fibers with boron nitride as the matrix. Due to their graphite-like layered structure, they possess excellent high-temperature resistance, high thermal conductivity, high strength, and oxidation resistance. They are often added to composite materials as reinforcing agents to improve the thermal conductivity, mechanical properties, and thermal stability of the materials, and have important applications in heat dissipation, thermal protection, and aerospace.

Upstream raw materials mainly include boron and nitrogen sources, as well as metal catalysts. The downstream industry chain is highly concentrated in high-end manufacturing. Its core application is as a high-performance reinforcing agent in high-temperature structural materials and composite materials in the aerospace and defense fields to improve heat resistance and mechanical properties. Simultaneously, as a key thermally conductive and insulating material, it serves cutting-edge electronics industries with extreme thermal management requirements, such as 5G/6G communications, artificial intelligence chips, electric vehicle electronic control systems, and power modules.

This report studies the global Boron Nitride Whisker production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Boron Nitride Whisker total production and demand, 2021-2032, (Tons)

Global Boron Nitride Whisker total production value, 2021-2032, (USD Million)

Global Boron Nitride Whisker production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Boron Nitride Whisker consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Boron Nitride Whisker domestic production, consumption, key domestic manufacturers and share

Global Boron Nitride Whisker production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Boron Nitride Whisker production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Boron Nitride Whisker production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Boron Nitride Whisker 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 SAT nano Technology Material, Shangdong Jonye Advanced Materials, Beijing Deke Daojin Science And Technology, Zhejiang Aimei Nano Technology, Shanghai Xiaohuang Nanotechnology, 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 Boron Nitride Whisker market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Boron Nitride Whisker Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Boron Nitride Whisker Market, Segmentation by Type:

h-BN Whisker

c-BN Whisker

Others

Global Boron Nitride Whisker Market, Segmentation by Microstructure:

Single Crystal BN Whisker

Polycrystalline BN Whisker

Global Boron Nitride Whisker Market, Segmentation by Application:

Composite Materials

High-Temperature Structural Materials

Thermally Conductive Yet Electrically Insulating Materials

Electronic Packaging Materials

Others

Companies Profiled:

SAT nano Technology Material

Shangdong Jonye Advanced Materials

Beijing Deke Daojin Science And Technology

Zhejiang Aimei Nano Technology

Shanghai Xiaohuang Nanotechnology

Key Questions Answered:

1. How big is the global Boron Nitride Whisker market?
2. What is the demand of the global Boron Nitride Whisker market?
3. What is the year over year growth of the global Boron Nitride Whisker market?

4. What is the production and production value of the global Boron Nitride Whisker market?
5. Who are the key producers in the global Boron Nitride Whisker market?
6. What are the growth factors driving the market demand?

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