

# Hexagonal-Boron Nitride Powder (h-BN) Market by Application (Coatings & Mold Release, Electrical Insulation, Lubrication-Industrial, Composites, Personal Care, Paints, Lubricants-Food, Thermal Spray) - Global Forecast to 2021

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## Abstracts

“Global h-BN powder market to witness CAGR of 5.1% during forecast period”

The hexagonal-Boron Nitride (h-BN) powder market is estimated to reach USD 821.0 million by 2021, at a CAGR of 5.1% from 2016 to 2021. H-BN performs better in high-temperature applications than its substitutes as it has high thermal stability and good electrical insulation properties. This has increased the demand for h-BN powder for the coatings & mold release application. The high cost of the h-BN powder relative to its substitutes is a restraint for the global h-BN powder market.

“H-BN powder market in Composites to register fastest growth”

The h-BN powder market in the composite segment is projected to grow at the highest rate during the forecast period. H-BN powder products are used in composites as replacement parts for areas in which high oxidation takes place, and where longer life and much lower erosion rates are required in replacement parts such as vents, plates, stacks, crucibles, and capsules. Due to the good thermal stability and the availability of high purity h-BN powder, it is used in the vacuum deposition process and as composite coating for metal processing, composited ceramics and high performance brake linings.

“Coatings & mold release, the largest application for h-BN powder”

The coatings & mold release application is estimated to be the largest application for the

h-BN powder. The application is growing due to the increasing demand for coating press dummy blocks in aluminum extrusion, coating running die and tool surfaces, coating ceramic components such as runners, nozzles, plugs and thermocouple protection tubes. Die-casting applications such as pouring magnesium and aluminum alloys, coating molds for secondary aluminum processing also make use of the h-BN powder. In addition, the h-BN powder can also be used as mold release for Hot Isostatic Pressing (HIPing), sintering media, glass manufacturing for automotive applications, release agent for high temperature polymers, elastomers, and rubber composites; polymer, metal and ceramic matrix, release agent when shape casting or injection molding, release agents for metal forming. The h-BN powder is preferred for these applications due to its high thermal stability, good electrical insulation and excellent lubricating properties.

“Asia-Pacific is the largest and the fastest-growing market for h-BN powder”

The Asia-pacific region is estimated to be the largest and the fastest-growing market for the h-BN powder. The high growth rate in the region is due to the high demand from countries such as Japan, China, and India. China is estimated to be the largest market for the h-BN powder in the Asia-pacific region, followed by Japan and India. India is estimated to be the fastest-growing market in the Asia-Pacific region. Growth of the coatings & mold release and electrical insulation industries has increased the demand for h-BN powder in the region.

Extensive primary interviews were conducted to determine and verify the market size for several segments and subsegments and information gathered through secondary research.

The break-up of primary interviews is given below.

By Company Type - Tier 1 – 37%, Tier 2 – 50%, and Tier 3 – 13%

By Designation - C level – 50%, Director level – 31%, and Others – 19%

By Region - North America – 31%, Europe – 38%, Asia-Pacific – 25%, and RoW- 6%

The companies profiled in this market research report are Saint-Gobain S.A. (France), 3M (U.S.), Denka Company Ltd. (Japan), Showa Denko K.K. (Japan), Kennametal Inc.

(U.S.), Momentive Performance Materials Inc. (U.S.), HC Starck GmbH (Germany), Mizushima Ferroalloy Co., Ltd. (Japan), ZYP Coatings (U.S.), and Henze Boron Nitride Products AG (Germany).

#### Research Coverage:

This research report categorizes the global h-BN powder market on the basis of application, and region. The report includes detailed information regarding the major factors influencing the growth of the h-BN powder market such as drivers, restraints, challenges, and opportunities. A detailed analysis of the key industry players has been done to provide insights into business overviews, products & services, key strategies, investments & expansions, mergers & acquisitions, and recent developments associated with the market.

#### REASONS TO BUY THE REPORT

The report will help market leaders/new entrants in this market in the following ways:

1. This report segments the global h-BN powder market comprehensively and provides the closest approximations of market sizes for the overall market and subsegments across verticals and regions.
2. The report will help stakeholders understand the pulse of the market and provide them information on the key market drivers, restraints, challenges, and opportunities.

This report will help stakeholders understand the major competitors and gain insights to enhance their position in the business. The competitive landscape section includes expansions, new product developments, and mergers & acquisitions.

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