

Transparency Market Research

Borophene Market - Global Industry Analysis, Size, Share, Forecast 2017 - 2025

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Report Description

Borophene is a sheet of boron with a structure similar to graphene. Borophene is considered a better conductor of electricity, compared to graphene due to its strong anisotropic structure. Borophene is an unusual material as it shows many metallic properties at the nanoscale. Key properties of borophene include low density, high strength, and high levels of flexibility. Due to the unique properties it possesses, borophene is expected to have applications in electronic sensors, semiconductors, and tribological devices. They are expected to be employed in super conductivity applications owing to the strong electron-photon coupling. In the bulk form, borophene acts as an insulator whereas, at the nano level, it acts a conductor. Borophene can be used as anode and cathode electrodes and thus application of borophenes in the energy sector is expected to have promising applications in the coming years.

Borophene has recently emerged as an important nanomaterial with enhanced electrical and mechanical properties. They are considered the ideal candidate for photovoltaic devices. It is believed that borophenes can be used for generating electricity, and can be used in solar cells, electrochemical capacitors, photo switching energy storage units, and bio-batteries. Carbon nanotubes are found to be effective in electrochemical capacitors as they can provide a strong entangled network which allows metal oxide deposition.

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Growing demand for composites which find application in the electrical & electronic, and energy sectors is the key driver of the global borophene market. Similarly, the need for lightweight materials for energy storage in the aerospace, defense, and electronics sectors are also expected to propel the market for borophene. The developments in various industries in Asia Pacific are another significant trigger for this market. Advancements in science and technology coupled with research & development activities are also considered to be major drivers of the borophene market.

In terms of application, the borophene market can be classified into electronic circuits, solar cells, energy storage, medical, chemical, and industrial. Borophene can be used as a component in transistors. The photovoltaic applications of borophene are expected to be highly attractive. The conducting electrons present in the borophene make it ideal for optoelectronic applications. Energy storage applications of borophene include electrodes, fuel cells, and thermos-electronics.

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The global borophene market expanded significantly in 2016. This trend is estimated to continue during the forecast period (2017-2025). Active research work based on borophene material is gaining momentum across the globe. On the basis of demand for the product, North America has been dominating the borophene market for the past few years. The rising demand for borophene in the composites, energy, electrical & electronics, and various industrial end-user segments is an important trend boosting the usage of

borophene.

Asia Pacific is considered a key region for the development of the borophene market due to the demand from the semi-conductor industry and chemical industry. The use of borophene as electrode material, both as anode and cathode material is anticipated to drive the market in the Asia Pacific region. Technological advancements coupled with research & development activities in Europe make it an attractive market for borophene. The presence of emerging economies both in Latin America and Middle East & Africa is also projected to drive the global borophene market for the electricity generation market.

Kyma Technologies is one of the key manufacturers in the borophene market.

The study is a source of reliable data on:

- Market segments and sub-segments
- Market trends and dynamics
- Supply and demand
- Market size
- Current trends/opportunities/challenges
- Competitive landscape
- Technological breakthroughs
- Value chain and stakeholder analysis

The regional analysis covers:

- North America (U.S. and Canada)
- Latin America (Mexico, Brazil, Peru, Chile, and others)
- Western Europe (Germany, U.K., France, Spain, Italy, Nordic countries, Belgium, Netherlands, and Luxembourg)
- Eastern Europe (Poland and Russia)
- Asia Pacific (China, India, Japan, ASEAN, Australia, and New Zealand)
- Middle East and Africa (GCC, Southern Africa, and North Africa)

The report has been compiled through extensive primary research (through interviews, surveys, and observations of seasoned analysts) and secondary research (which entails reputable paid sources, trade journals, and industry body databases). The report also features a complete qualitative and quantitative assessment by analyzing data gathered from industry analysts and market participants across key points in the industry's value chain.

A separate analysis of prevailing trends in the parent market, macro- and micro-economic indicators, and regulations and mandates is included under the purview of the study. By doing so, the report projects the attractiveness of each major segment over the forecast period.

Highlights of the report:

- A complete backdrop analysis, which includes an assessment of the parent market
- Important changes in market dynamics
- Market segmentation up to the second or third level
- Historical, current, and projected size of the market from the standpoint of both value and volume
- Reporting and evaluation of recent industry developments
- Market shares and strategies of key players
- Emerging niche segments and regional markets

An objective assessment of the trajectory of the market Recommendations to companies for strengthening their foothold in the market.

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Transparency Market Research is a market intelligence company providing global business information reports and services. Our exclusive blend of quantitative forecasting and trends analysis provides forward-looking insight for thousands of decision makers.

We are privileged with highly experienced team of Analysts, Researchers and Consultants, who use proprietary data sources and

various tools and techniques to gather, and analyze information. Our business offerings represent the latest and the most reliable information indispensable for businesses to sustain a competitive edge.

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