

Boric Acid Market Report by Purity (

Abstracts

The global boric acid market size reached USD 936.0 Million in 2024. Looking forward, IMARC Group expects the market to reach USD 1,404.2 Million by 2033, exhibiting a growth rate (CAGR) of 4.61% during 2025-2033. The increasing use of boric acid in fertilizers to enhance crop yields and improve soil health is stimulating the market growth.

Boric acid is a chemical compound composed of boron, oxygen, and hydrogen, with the chemical formula H_3BO_3 . It exists as a white, odorless, crystalline powder. This versatile substance finds applications in various industries, including pharmaceuticals, agriculture, and cosmetics, as an antiseptic, astringent, pesticide, and fertilizer. Besides this, boric acid is utilized in manufacturing glass, ceramics, and enamel due to its ability to act as a flux. Its mild antiseptic properties also make it popular in skin care products and eye drops.

The increasing demand for boric acid in various end-use industries such as agriculture, ceramics, glass, and pharmaceuticals, is primarily fueling its market growth. In addition to this, the bolstering growth of the agricultural sector, especially in developing regions, is fueling the need for boric acid-based fertilizers and pesticides to enhance crop yield. Furthermore, the rising demand for boric acid in the production of fiberglass and insulation materials for construction purposes is contributing to market expansion. Concurrent with this, the growing awareness about the benefits of boric acid in skin care products and eye drops is boosting its employment in the cosmetics and healthcare industries, thereby strengthening the market growth. Moreover, various other factors, such as rapid industrialization, urbanization, and infrastructure development in emerging economies, are presenting lucrative opportunities for market expansion.

Boric Acid Market Trends/Drivers:

Diverse applications in various industries

Boric acid's versatility and wide range of applications across diverse industries are major factors fueling its market growth. Moreover, the surging product adoption across the thriving agriculture sector as an essential micronutrient for crops to promote healthy plant growth and increase yield is propelling the market forward. Concurrent with this, boric acid acts as a flux in the ceramics and glass industries, reducing the melting point of materials and enhancing the manufacturing process of glass and ceramics products.

This application is particularly crucial in the production of electronic components, display panels, and glass fibers for insulation purposes. Furthermore, boric acid finds application in pharmaceuticals as an antiseptic and astringent, contributing to its usage in the healthcare sector.

Growing agricultural sector in emerging economies

The expanding agricultural sector, especially in emerging economies, is acting as a significant growth-inducing driver for the global boric acid market. As the global population continues to grow, the demand for agricultural products rises, thereby increasing the need for boric acid-based fertilizers and pesticides. Developing regions are witnessing rapid industrialization and urbanization, leading to an increase in agricultural activities to meet the rising demand for food. Boric acid's importance as an agricultural input, such as boron-based fertilizers and pesticides, has gained traction due to its role in improving soil fertility and plant health. As emerging economies continue to modernize and invest in agriculture, the demand for boric acid is expected to grow steadily.

Rising demand from construction and infrastructure development

The construction industry's growth and the expanding infrastructure development across the globe are some of the key factors impelling the market growth. Boric acid is utilized in the manufacturing of fiberglass and insulation materials, which are integral components in construction projects. These materials provide excellent thermal and acoustic insulation properties, making them essential in buildings, automotive, and aerospace sectors. As a result, with rapid urbanization and a surge in global construction activities, the demand for boric acid in these applications is expected to witness substantial growth, creating a positive outlook for market expansion.

Boric Acid Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with the boric acid market forecast at the global, regional, and country levels for 2025-2033. Our report has categorized the market based on purity, application, distribution channel, and end user.

Breakup by Purity:

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