

Global Borosilicate Glass Market - Forecasts from 2019 to 2024

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Abstracts

The global borosilicate glass market is projected to grow at a CAGR of 5.57% to reach US\$22.336 billion by 2024, from US\$16.135 billion in 2018. The rapid increase in the demand of the borosilicate glass may be attributed to its high mechanical strength and resistance to thermal shock, making it useful in a number of end-user industries.

Borosilicate glass is a type of glass that contains boron trioxide and silica as major glass network formers. Boron trioxide allows for a very low coefficient of thermal expansion and makes it thermal shock resistant which means that the glass is able to resist extreme changes in temperature and is measured by the "Coefficient of Thermal Expansion. Because of its durability and resistance to chemical changes, borosilicate glass has traditionally been used in chemistry labs and industrial settings, as well as for kitchenware and premium wine glasses. Because of its superior quality, it is often priced higher than soda-lime glass. Also, this glass is less than dense than the usual soda-lime glass and with a relatively low refractive index.

Owing to their high resistance and relatively inert nature, borosilicate glasses are used in a number of industries. These properties make them the most preferable glass type for making laboratory glassware, microwave glass cookware and high-quality beverage glassware. The borosilicate glass, when subjected to extreme stress, will rather crack or break into large pieces instead of shattering into many small ones. Besides these, borosilicate glass also has its use in the semiconductor industry and in the making of thermal insulation tiles of the famed Space Shuttle and is also used for immobilization and disposal of radioactive waste.

The borosilicate glass market is projected a significant growth during the given time frame. Rising use of borosilicate glass in the solar industry, medical implantable devices

and as well as electronic devices will drive the market for borosilicate glass during the given forecast period.

By Application

By Application, the borosilicate glass market is segmented as a laboratory, electronics, aerospace, cookware, and solar. Laboratory segment expected to hold a significant share owing to its comparatively inert nature and high heat resistance. Despite high thermal resistance, borosilicate glass can be cracked due to sudden or uneven temperature variations.

By Geography

Geographically, the borosilicate glass market is segmented as North America, South America, Europe, Middle East and Africa, and Asia Pacific. The Asia-Pacific is expected to project a significant growth owing to the rising demand from the growing number of healthcare and research laboratories.

Segmentation

The borosilicate glass market has been segmented by the end-user industry and geography.

By Application

Laboratories

Electronics

Aerospace

Cookware

Solar

By Geography

North America

USA

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

Germany

France

United Kingdom

Spain

Others

Middle East and Africa

Saudi Arabia

Israel

UAE

Others

Asia Pacific

China

Japan

South Korea

India

Others

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