

# **Glass Ceramics Market by Composition (Lithium-Aluminium-Silicate (LAS), Zinc-Aluminium-Silicon Oxides (ZAS), Magnesium-Aluminium-Silicon Oxides (MAS), and Others), Application (Building and Construction, Electrical and Electronics, Healthcare, Aerospace, Optical, and Others), and Region 2023-2028**

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## **Abstracts**

### Market Overview:

The global glass ceramics market size reached US\$ 1.5 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 2.1 Billion by 2028, exhibiting a growth rate (CAGR) of 5.73% during 2023-2028. The escalating product demand in the building and construction industry, considerable growth in the semiconductors industry, and the increasing sales of glass-ceramics-based kitchen appliances represent some of the key factors driving the market.

Glass ceramics refer to materials composed of fine-grained polycrystalline materials formed by heat-treating glasses to a lower energy, crystallized state. Combining glass and polycrystalline ceramics, these materials are fabricated from polycrystalline materials that have fine microstructures through the crystallization of glass. These ceramics are formed by partially crystallized glasses with distinct crystalline and amorphous phases, and they are almost non-expansive over a considerable temperature range, while also reducing noise. In addition to exhibiting properties, such as abrasion resistance and high mechanical strength, glass ceramics can withstand harsh conditions, such as erosion, rain, and wind. In addition to their high strength, zero porosity and transparency, glass ceramics are chemically inert, making them highly

thermally stable. Compared to their conventional counterparts, glass ceramics are robust and transfer heat more efficiently.

#### Glass Ceramics Market Trends:

The escalating demand for glass ceramics in the building and construction industry is a significant factor for the market growth. This can be attributed to the considerable expansion of construction activities across the globe. In line with this, the growing adoption of glass ceramics in the manufacturing of semiconductor appliances is also providing an impetus to the market. Besides this, rapid product utilization in the production of antennas for mobiles and Wi-Fi applications is also resulting in a higher product uptake. Moreover, the augmenting demand for glass ceramics in numerous orthopedic applications, such as spinal restoration in intervertebral spaces, is also creating a positive outlook for the market. The market is further propelled by considerable growth in the aerospace and defense industry resulting in an increased requirement for high-end aircraft and missiles. Apart from this, a significant rise in the sales of glass-ceramics-based cooktops, stoves, bakeware, microwave and fireplace doors is creating lucrative opportunities in the market on the global level. Extensive research and development (R&D) activities conducted by the key players focusing on advanced bioactive glass ceramics for bone and musculoskeletal tissue engineering and ongoing clinical trials in the medical industry are further fueling the market. Some of the other factors contributing to the market include rapid urbanization and industrialization, inflating disposable income levels, and continual product innovations.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global glass ceramics market, along with forecasts at the global, regional, and country level from 2023-2028. Our report has categorized the market based on composition and application.

#### Composition Insights:

- Lithium-Aluminium-Silicate (LAS)
- Zinc-Aluminium-Silicon Oxides (ZAS)
- Magnesium-Aluminium-Silicon Oxides (MAS)
- Others

The report has provided a detailed breakup and analysis of the glass ceramics market based on the composition. This includes lithium-aluminium-silicate (LAS), zinc-aluminium-silicon oxides (ZAS), magnesium-aluminium-silicon oxides (MAS), and others. According to the report, lithium-aluminium-silicate (LAS) represented the largest segment.

#### Application Insights:

- Building and Construction
- Electrical and Electronics
- Healthcare
- Aerospace
- Optical
- Others

A detailed breakup and analysis of the glass ceramics market based on the application has also been provided in the report. This includes building and construction, electrical and electronics, healthcare, aerospace, optical, and others. According to the report, building and construction accounted for the largest market share.

#### Regional Insights:

North America

- United States
- Canada

Asia Pacific

- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Others

## Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

## Latin America

Brazil

Mexico

Others

## Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and Middle East and Africa. According to the report, Asia Pacific was the largest market for glass ceramics. Some of the factors driving the Asia Pacific glass ceramics market include rapid urbanization, presence of several key players, considerable growth in the aerospace and defense industry, etc.

### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global glass ceramics market. Detailed profiles of all major companies have also been provided. Some of the companies covered include AGC Inc., CoorsTek Inc., Corning Incorporated, Kyocera Corporation, Morgan Advanced Materials plc, Nippon Electric Glass Co. Ltd., Ohara Corporation, Schott AG, Wenzhou Kanger Crystallite Utensils Co. Ltd., etc. Kindly note that this only represents a partial list of companies,

and the complete list has been provided in the report.

#### Key Questions Answered in This Report:

How has the global glass ceramics market performed so far and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global glass ceramics market?

What are the key regional markets?

Which countries represent the most attractive glass ceramics markets?

What is the breakup of the market based on the composition?

What is the breakup of the market based on the application?

What is the competitive structure of the global glass ceramics market?

Who are the key players/companies in the global glass ceramics market?

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