

Global Bioactive Glass Market Size Study, by Product Outlook (Silicate-based glass, Phosphate-based glass, Borate-based glass), by Application Outlook (Medical, Dentistry, Cosmetics, Others) and Regional Forecasts 2022-2032

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Abstracts

Global Bioactive Glass Market is valued at approximately USD 25.1 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 7.5% over the forecast period 2024-2032. Bioactive glass, composed of silica, calcium oxide, and phosphorus oxide, represents a groundbreaking material in the realm of biocompatible and bioactive substances. When implanted, it forms a hydroxyapatite layer on its surface, which bonds seamlessly with bone tissue, making it indispensable in orthopaedic and dental applications such as bone grafts, coatings for implants, and dental fillings. Additionally, its applications extend to wound healing, tissue engineering, and drug delivery systems, significantly enhancing the body's natural repair processes. The intrinsic ability of bioactive glass to integrate with biological tissues positions it as a critical material in regenerative medicine, thereby driving market growth.

The market's expansion is underpinned by several key factors. Firstly, there is a burgeoning demand for dental care and cosmetic dentistry, propelled by increasing consumer awareness and the desire for enhanced oral aesthetics. Secondly, the rising prevalence of orthopedic disorders, including arthritis and osteoporosis, escalates the demand for orthopedic treatments and devices. Lastly, the growing incidence of dental conditions such as cavities and gum disease underscore the necessity for preventive and therapeutic dental care solutions. These factors collectively foster growth in the dental and orthopedic markets, spurring innovation in treatments, technologies, and patient care methodologies. As healthcare awareness continues to proliferate globally, the bioactive glass market is poised for sustained development, catering to the evolving needs of both patients and practitioners.

The high demand for dental care and cosmetic dentistry is a significant driver for the bioactive glass market. The prevalence of oral diseases, such as periodontal disease, often leads to tooth loss and infections, necessitating advanced dental care techniques like dental implants, bridges, and dentures. Technological advancements in dentistry, including teledentistry, digital x-rays, and lasers, alongside the inclusion of dental insurance in the National Health Insurance (NHI) bill, are further propelling market growth. However, stringent regulations and product recalls present challenges. Regulatory bodies enforce strict frameworks, and medical devices must undergo rigorous safety and efficacy evaluations before approval. Non-compliance can hinder new product launches, adversely affecting market growth.

In regional analysis, North America holds a dominant share in the bioactive glass market, largely due to the presence of key competitors in the US, robust economic growth, and the increasing adoption of bioactive glass in dental applications. The Asia Pacific region is expected to grow at the highest CAGR during the forecast period, driven by rising R&D investments in healthcare, increasing dental and orthopedic surgeries, lifestyle changes, and rising disposable incomes, all of which positively impact the market size in the region. Whereas, the market in Asia Pacific is anticipated to grow at the fastest rate over the forecast period 2024-2032

Major market players included in this report are:

Arthrex Inc.

Bonalive Biomaterials Ltd.

Curasan Inc.

Ferro Corp.

GlaxoSmithKline Plc

Johnson and Johnson Services Inc.

Koninklijke DSM NV

LASAK s.r.o.

Matexcel

Merck KGaA

The detailed segments and sub-segment of the market are explained below:

By Product Outlook:

- Silicate-based glass
- Phosphate-based glass
- Borate-based glass

By Application Outlook:

- Medical
- Dentistry
- Cosmetics
- Others

By Region:

- North America
- U.S.
- Canada
- Europe
- UK
- Germany
- France
- Spain
- Italy
- ROE
- Asia Pacific
- China
- India
- Japan
- Australia
- South Korea
- RoAPAC
- Latin America
- Brazil
- Mexico
- RoLA
- Middle East & Africa
- Saudi Arabia
- South Africa
- RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market.

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