

# **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**

<https://marketpublishers.com/r/G0FA7CA7F152EN.html>

Date: August 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G0FA7CA7F152EN

## **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.

## Contents

### **CHAPTER 1. GLOBAL BIOACTIVE GLASS MARKET EXECUTIVE SUMMARY**

- 1.1. Global Bioactive Glass Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Product Outlook
  - 1.3.2. By Application Outlook
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

### **CHAPTER 2. GLOBAL BIOACTIVE GLASS MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply Side Analysis
    - 2.3.3.1. Availability
    - 2.3.3.2. Infrastructure
    - 2.3.3.3. Regulatory Environment
    - 2.3.3.4. Market Competition
    - 2.3.3.5. Economic Viability (Consumer's Perspective)
  - 2.3.4. Demand Side Analysis
    - 2.3.4.1. Regulatory frameworks
    - 2.3.4.2. Technological Advancements
    - 2.3.4.3. Environmental Considerations
    - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

### **CHAPTER 3. GLOBAL BIOACTIVE GLASS MARKET DYNAMICS**

- 3.1. Market Drivers

- 3.1.1. Robust demand for dental care and cosmetic dentistry
- 3.1.2. Rising prevalence of orthopedic disorders
- 3.1.3. Increasing incidence of dental conditions
- 3.2. Market Challenges
  - 3.2.1. Stringent regulations
  - 3.2.2. Product recalls
- 3.3. Market Opportunities
  - 3.3.1. Technological advancements in dental care
  - 3.3.2. Expansion of healthcare awareness globally
  - 3.3.3. Innovation in regenerative medicine

## **CHAPTER 4. GLOBAL BIOACTIVE GLASS MARKET INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Force Model
  - 4.1.1. Bargaining Power of Suppliers
  - 4.1.2. Bargaining Power of Buyers
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
  - 4.1.6. Futuristic Approach to Porter's 5 Force Model
  - 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
  - 4.2.1. Political
  - 4.2.2. Economical
  - 4.2.3. Social
  - 4.2.4. Technological
  - 4.2.5. Environmental
  - 4.2.6. Legal
- 4.3. Top investment opportunity
- 4.4. Top winning strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL BIOACTIVE GLASS MARKET SIZE & FORECASTS BY PRODUCT OUTLOOK 2022-2032**

- 5.1. Segment Dashboard
- 5.2. Global Bioactive Glass Market: Product Outlook Revenue Trend Analysis, 2022 &

2032 (USD Billion)

5.2.1. Silicate-based glass

5.2.2. Phosphate-based glass

5.2.3. Borate-based glass

## **CHAPTER 6. GLOBAL BIOACTIVE GLASS MARKET SIZE & FORECASTS BY APPLICATION OUTLOOK 2022-2032**

6.1. Segment Dashboard

6.2. Global Bioactive Glass Market: Application Outlook Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. Medical

6.2.2. Dentistry

6.2.3. Cosmetics

6.2.4. Others

## **CHAPTER 7. GLOBAL BIOACTIVE GLASS MARKET SIZE & FORECASTS BY REGION 2022-2032**

7.1. North America Bioactive Glass Market

7.1.1. U.S. Bioactive Glass Market

7.1.1.1. Product Outlook breakdown size & forecasts, 2022-2032

7.1.1.2. Application Outlook breakdown size & forecasts, 2022-2032

7.1.2. Canada Bioactive Glass Market

7.2. Europe Bioactive Glass Market

7.2.1. U.K. Bioactive Glass Market

7.2.2. Germany Bioactive Glass Market

7.2.3. France Bioactive Glass Market

7.2.4. Spain Bioactive Glass Market

7.2.5. Italy Bioactive Glass Market

7.2.6. Rest of Europe Bioactive Glass Market

7.3. Asia-Pacific Bioactive Glass Market

7.3.1. China Bioactive Glass Market

7.3.2. India Bioactive Glass Market

7.3.3. Japan Bioactive Glass Market

7.3.4. Australia Bioactive Glass Market

7.3.5. South Korea Bioactive Glass Market

7.3.6. Rest of Asia Pacific Bioactive Glass Market

7.4. Latin America Bioactive Glass Market

- 7.4.1. Brazil Bioactive Glass Market
- 7.4.2. Mexico Bioactive Glass Market
- 7.4.3. Rest of Latin America Bioactive Glass Market
- 7.5. Middle East & Africa Bioactive Glass Market
  - 7.5.1. Saudi Arabia Bioactive Glass Market
  - 7.5.2. South Africa Bioactive Glass Market
  - 7.5.3. Rest of Middle East & Africa Bioactive Glass Market

## **CHAPTER 8. COMPETITIVE INTELLIGENCE**

- 8.1. Key Company SWOT Analysis
  - 8.1.1. Company
  - 8.1.2. Company
  - 8.1.3. Company
- 8.2. Top Market Strategies
- 8.3. Company Profiles
  - 8.3.1. Arthrex Inc.
    - 8.3.1.1. Key Information
    - 8.3.1.2. Overview
    - 8.3.1.3. Financial (Subject to Data Availability)
    - 8.3.1.4. Product Summary
    - 8.3.1.5. Market Strategies
  - 8.3.2. Bonalive Biomaterials Ltd.
  - 8.3.3. Curasan Inc.
  - 8.3.4. Ferro Corp.
  - 8.3.5. GlaxoSmithKline Plc
  - 8.3.6. Johnson and Johnson Services Inc.
  - 8.3.7. Koninklijke DSM NV
  - 8.3.8. LASAK s.r.o.
  - 8.3.9. Matexcel
  - 8.3.10. Merck KGaA

## **CHAPTER 9. RESEARCH PROCESS**

- 9.1. Research Process
  - 9.1.1. Data Mining
  - 9.1.2. Analysis
  - 9.1.3. Market Estimation
  - 9.1.4. Validation

9.1.5. Publishing  
9.2. Research Attributes



## List Of Tables

### LIST OF TABLES

- TABLE 1. Global Bioactive Glass market, report scope
- TABLE 2. Global Bioactive Glass market estimates & forecasts by Region 2022-2032 (USD Billion)
- TABLE 3. Global Bioactive Glass market estimates & forecasts by Product Outlook 2022-2032 (USD Billion)
- TABLE 4. Global Bioactive Glass market estimates & forecasts by Application Outlook 2022-2032 (USD Billion)
- TABLE 5. Global Bioactive Glass market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 6. Global Bioactive Glass market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 7. Global Bioactive Glass market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 8. Global Bioactive Glass market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 9. Global Bioactive Glass market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 10. Global Bioactive Glass market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 11. Global Bioactive Glass market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 12. Global Bioactive Glass market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 13. Global Bioactive Glass market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 14. Global Bioactive Glass market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 15. U.S. Bioactive Glass market estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 16. U.S. Bioactive Glass market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 17. U.S. Bioactive Glass market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 18. Canada Bioactive Glass market estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 19. Canada Bioactive Glass market estimates & forecasts by segment

2022-2032 (USD Billion)

TABLE 20. Canada Bioactive Glass market estimates & forecasts by segment

2022-2032 (USD Billion)

...

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Bioactive Glass market, research methodology
- FIG 2. Global Bioactive Glass market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods
- FIG 4. Global Bioactive Glass market, key trends 2023
- FIG 5. Global Bioactive Glass market, growth prospects 2022-2032
- FIG 6. Global Bioactive Glass market, porters 5 force model
- FIG 7. Global Bioactive Glass market, PESTEL analysis
- FIG 8. Global Bioactive Glass market, value chain analysis
- FIG 9. Global Bioactive Glass market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Bioactive Glass market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Bioactive Glass market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Bioactive Glass market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Bioactive Glass market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Bioactive Glass market, regional snapshot 2022 & 2032
- FIG 15. North America Bioactive Glass market 2022 & 2032 (USD Billion)
- FIG 16. Europe Bioactive Glass market 2022 & 2032 (USD Billion)
- FIG 17. Asia Pacific Bioactive Glass market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Bioactive Glass market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Bioactive Glass market 2022 & 2032 (USD Billion)
- FIG 20. Global Bioactive Glass market, company market share analysis (2023)

...

This list is not complete, final report does contain more than 50 figures. The list may be updated in the final deliverable.

## I would like to order

Product name: 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

Product link: <https://marketpublishers.com/r/G0FA7CA7F152EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G0FA7CA7F152EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970