

# **Bioactive Materials Market by Material (Glass, Glass-ceramics, Composite, and Others), Type (Powder, Moldable, Granules, and Others), Application (Dentistry, Surgery, Bioengineering, and Others), and Region 2023-2028**

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## **Abstracts**

The global bioactive materials market size reached US\$ 2.51 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 5.61 Billion by 2028, exhibiting a growth rate (CAGR) of 13.10% during 2023-2028. The growing demand for regenerative medicine, the development of new and improved bioactive materials with enhanced properties and continuous improvements in the field of biotechnology and life science represent some of the key factors driving the market.

Bioactive materials are constituents that are meant to interact with biological systems, such as cells, tissues, and organs. These materials can be synthetic or natural and are mainly used in a variety of medical applications, including tissue engineering, drug delivery, and regenerative medicine. They can promote specific biological responses, such as cell adhesion, proliferation, and differentiation, by mimicking the extracellular matrix (ECM) of the tissue being targeted. Additionally, they can also be utilized for drug delivery, where the material is designed to release a drug or therapeutic agent over time. This can be useful for targeted drug delivery, where the drug is released directly to the affected tissue, minimizing side effects and improving efficacy. As a result, they are gaining widespread prominence across the globe since bioactive materials have a wide range of applications in the medical field and are an important tool for advancing treatments for various diseases and conditions. Some of the common bioactive materials include hydroxyapatite and polycaprolactone (PCL) that are widely adopted for bone grafts and dental implants and to create scaffolds that promote the growth of new tissue.

### Bioactive Materials Market Trends:

The global market is majorly driven by the growing demand for regenerative medicine among patients and healthcare professionals. Coupled with the increasing prevalence of chronic diseases among individuals, leading to a growing need for innovative treatment options, this is providing a boost to the demand for bioactive materials to promote tissue regeneration and repair. Along with this, continual technological advancements in the field of bioactive materials and the development of new and improved materials with enhanced properties, such as biocompatibility, biodegradability, and mechanical strength, are creating a positive market outlook. Furthermore, the growing investments in extensive research and development (R&D) activities to develop new materials and applications are acting as a growth-inducing factor. Apart from this, the escalating funding by private and public agencies to upgrade the overall healthcare infrastructure is impacting the market favorably. Along with this, continuous improvements in the field of biotechnology and life science are significantly supporting the demand for bioactive materials across the globe. Other factors, including rapid urbanization, the growing geriatric population and the development of medical facilities across rural and geographically extended locations, are also positively influencing the market.

### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global bioactive materials market, along with forecasts at the global, regional, and country levels from 2023-2028. Our report has categorized the market based on material, type and application.

### Material Insights:

- Glass
- Glass-ceramics
- Composite
- Others

The report has provided a detailed breakup and analysis of the bioactive materials market based on the material. This includes glass, glass-ceramics, composites and others. According to the report, glass represented the largest segment.

### Type Insights:

Powder  
Moldable  
Granules  
Others

A detailed breakup and analysis of the bioactive materials market based on the type has also been provided in the report. This includes powder, moldable, granules and others. According to the report, powder type accounted for the largest market share.

#### Application Insights:

Dentistry  
Surgery  
Bioengineering  
Others

The report has provided a detailed breakup and analysis of the bioactive materials market based on the application. This includes dentistry, surgery, bioengineering and others. According to the report, dentistry application exhibits a clear dominance in the market.

#### 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, which 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 the Middle East and Africa. According to the report, North America was the largest market for bioactive materials. Some of the factors driving the North America bioactive materials market included the growing investment in extensive research and development (R&D) activities, the emerging healthcare infrastructure, the development of medical facilities across rural and geographically extended locations, etc.

#### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global bioactive materials market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include Arthrex Inc., BBS-Bioactive Bone Substitutes Oyj, Berkeley Advanced Biomaterials, Biomatlante SAS (Advanced Medical Solutions Group Plc), Ceraver, DePuy Synthes Inc. (Johnson & Johnson), Noraker, PULPDENT Corporation, Regenity Biosciences, 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 bioactive materials market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global bioactive materials market?

What is the impact of each driver, restraint, and opportunity on the global bioactive materials market?

What are the key regional markets?

Which countries represent the most attractive bioactive materials market?

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

Which is the most attractive material in the bioactive materials market?

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

Which is the most attractive type in the bioactive materials market?

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

Which is the most attractive application in the bioactive materials market?

What is the competitive structure of the global bioactive materials market?

Who are the key players/companies in the global bioactive materials market?

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