

Dental Biomaterials Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (Metallic Biomaterials, Ceramic Biomaterials, Polymeric Biomaterials, Metal-Ceramic Biomaterials, Natural Biomaterials, Composites Biomaterials), By Application (Orthodontics, Implantology, Prosthodontics, Others), By End User (Dental Hospitals& Clinics, Dental laboratories, Dental Academies and Research Institutes, Dental Product manufacturers), By Region, By Competition

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Abstracts

The Global Dental Biomaterials Market reached a valuation of USD 7.45 Billion in 2022 and is poised for substantial growth in the forecast period, with a projected Compound Annual Growth Rate (CAGR) of 6.14% through 2028 and is expected to reach USD 10.54 Billion by 2028. Recent years have witnessed remarkable advancements in the field of dentistry, fundamentally transforming the approach to oral health. At the core of this transformation is the rapid evolution of dental biomaterials, innovative substances used to restore, repair, and enhance dental structures. The global dental biomaterials market is a dynamic arena driven by cutting-edge research, technological innovation, and a growing awareness of the significance of oral health.

Numerous factors have contributed to the expansion of the dental biomaterials market. A primary driver is the increasing prevalence of dental disorders, including cavities, periodontal diseases, and tooth loss. As the global population ages and awareness of oral health rises among consumers, the demand for effective dental solutions has

surged. Advancements in material science and engineering have facilitated the development of biomaterials with superior properties, not only replicating the natural appearance of teeth but also offering enhanced durability, biocompatibility, and resistance to wear. Patients now seek dental procedures that deliver long-lasting results with minimal discomfort, and dental biomaterials are well-positioned to meet this demand.

The integration of digital technologies, such as 3D printing and computer-aided design (CAD), has revolutionized the dental industry. Dental professionals can now create highly accurate and customized prosthetics and restorations through precise manipulation of dental biomaterials. This trend has also reduced lead times for treatment, providing patients with faster solutions.

Furthermore, dental biomaterials are increasingly designed to stimulate the body's natural regenerative processes. Biocompatible materials promote tissue growth and repair, enhancing the success rate of procedures like dental implant placements and bone grafts, contributing to the expansion of the Global Dental Biomaterials Market.

Key Market Drivers:

****1. Rising Prevalence of Dental Disorders Fuels the Global Dental Biomaterials Market:**** Dental disorders encompass various conditions, including dental caries (cavities), periodontal diseases, tooth loss, and malocclusion. These disorders not only affect oral health but also impact an individual's quality of life. According to the World Health Organization (WHO), nearly 3.5 billion people globally suffer from oral diseases. Factors like poor oral hygiene, unhealthy diets, tobacco use, and limited access to dental care services contribute to the rising prevalence. Dental biomaterials have emerged as a critical component of modern dentistry, addressing these challenges by providing biocompatible, durable, and aesthetically pleasing solutions.

****2. Increasing Aging Population Drives the Global Dental Biomaterials Market:**** The aging population worldwide faces numerous dental challenges, including tooth loss and gum disease. As individuals age, their oral health tends to deteriorate due to factors like reduced salivary flow and weakened enamel. The demand for dental solutions that enhance aesthetics, comfort, and durability has driven the need for advanced dental biomaterials. Dental implants, in particular, have become a preferred solution for restoring missing teeth, improving oral function, and enhancing the quality of life for older individuals.

Key Market Challenges:

****1. Regulatory Hurdles and Standards:**** Navigating the complex regulatory landscape poses a significant challenge for the dental biomaterials market. Adhering to strict regulatory requirements, ensuring patient safety, and obtaining approvals can be time-consuming and costly. Varying regulations across regions further complicate matters for manufacturers seeking a global presence.

****2. Biocompatibility and Long-Term Durability:**** Dental biomaterials must exhibit biocompatibility, meaning they should interact with living tissues without causing harm. Maintaining long-term durability in the harsh oral environment, which includes exposure to saliva, chewing forces, and temperature variations, is another challenge.

****3. Cost Considerations:**** The cost of dental biomaterials can limit accessibility, especially in regions with limited healthcare resources. Balancing affordability with product quality is a persistent challenge for both practitioners and patients.

****4. Education and Training:**** Proper application of dental biomaterials requires skilled practitioners who understand the materials' properties and clinical use. Dental schools and continuing education programs need to equip dental professionals with the necessary skills to work with these biomaterials effectively.

****5. Environmental Consideration:**** As sustainability gains importance, the dental industry is under pressure to reduce its environmental footprint. Many dental materials are non-biodegradable, posing challenges related to waste management. Developing eco-friendly biomaterials and adopting greener manufacturing processes are crucial for addressing environmental concerns.

Key Market Trends:

****1. Technological Advancements:**** Technological advancements play a pivotal role in the growth of the dental biomaterials market. Innovations in manufacturing, including 3D printing, CAD/CAM systems, and biomimetic materials, have improved the precision and customization of dental products. Nanotechnology has also enhanced properties like mechanical strength and biocompatibility.

****2. Segmental Insights:**** In 2022, the Ceramic Biomaterials segment dominated the market, driven by its ability to closely resemble natural teeth in terms of appearance and biocompatibility. In the application segment, Orthodontics was the dominant area,

reflecting the increasing demand for aesthetic improvements in dentistry.

****3. Regional Insights:**** North America, particularly the United States and Canada, leads in dental biomaterials due to advanced healthcare infrastructure, research institutions, and dental schools. These factors enable the development and adoption of new dental biomaterials. The region also hosts industry-leading companies and sees high patient demand for advanced dental solutions.

Key Market Players

Straumann Holding AG

Geistlich Pharma AG

Zimmer Biomet Holdings, Inc.

Danaher Corporation

Dentsply Sirona, Inc.

3M Company

Royal DSM

Carpenter Technology Corporation

Kuraray Co., Ltd.

Medtronic PLC

Henry Schein, Inc.

Mitsui Chemicals, Inc.

Victrex PLC

Ivoclar Vivadent AG

GC Corporation

Report Scope:

In this report, the Global Dental Biomaterials Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Dental Biomaterials Market, By Type:

Metallic Biomaterials

Ceramic Biomaterials

Polymeric Biomaterials

Metal-Ceramic Biomaterials

Natural Biomaterials

Composites Biomaterials

Dental Biomaterials Market, By Application:

Orthodontics

Implantology

Prosthodontics

Others

Dental Biomaterials Market, By End-User:

Dental Hospitals & Clinics

Dental laboratories

Dental Academies and Research Institutes

Dental Product manufacturers

Dental Biomaterials Market, By Region:

North America

Asia-Pacific

Europe

Middle East & Africa

South America

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Dental Biomaterials Market.

Available Customizations:

Global Dental Biomaterials Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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