

Dental Biomaterials Market Outlook 2025-2034: Market Share, and Growth Analysis By Type(Metallic Biomaterials, Ceramic Biomaterials, Polymeric Biomaterials, Metal-Ceramic Biomaterials, Natural Biomaterials, Composites Biomaterials), By Bone Graft Material Type, By Application, By End-User

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Abstracts

The Dental Biomaterials Market is valued at USD 11.7 billion in 2025 and is projected to grow at a CAGR of 7.1% to reach USD 21.6 billion by 2034. The Dental Biomaterials Market encompasses a wide range of materials used in dentistry for the restoration, replacement, or regeneration of oral tissues. This includes dental implants, bone graft substitutes, membranes for guided tissue regeneration (GTR) and guided bone regeneration (GBR), orthodontic materials, and materials for prosthetics like dentures and crowns. The market is driven by the increasing prevalence of dental diseases, the aging population, the growing demand for esthetic dentistry, and advancements in biomaterial science. The Dental Biomaterials Market saw continued growth, with a strong focus on biocompatibility, osseointegration (for implants), and esthetics. The demand for dental implants as a long-term solution for tooth loss remained high. The market also saw increasing use of synthetic bone graft materials and resorbable membranes. Research continued to explore new biomaterials with enhanced properties, such as antimicrobial surfaces and growth factor delivery capabilities. The use of 3D-printed biomaterials for customized dental applications also gained traction. The Dental Biomaterials Market is expected to maintain a robust growth trajectory, driven by the ongoing demand for advanced dental treatments. We anticipate further innovations in implant materials and surface technologies to improve osseointegration and longevity. The development of more sophisticated bone graft substitutes and regenerative materials will likely continue. The use of nanotechnology and growth factors in dental

biomaterials may become more widespread. 3D printing is expected to play an increasingly significant role in the fabrication of customized dental devices and scaffolds for tissue engineering. Furthermore, the focus on biocompatibility and long-term clinical outcomes will remain paramount.

Key Insights Dental Biomaterials Market

Continued advancements in dental implant materials and surface treatments to enhance osseointegration (bone bonding) and improve long-term implant success rates.

Increasing use of synthetic and allograft bone graft substitutes as alternatives to autografts, offering reduced morbidity and increased availability.

Development of resorbable membranes for guided tissue regeneration (GTR) and guided bone regeneration (GBR) procedures, eliminating the need for a second surgery for membrane removal.

Research and development of dental biomaterials with enhanced properties, such as antimicrobial surfaces to prevent peri-implantitis and materials capable of

more

releasing growth factors to promote tissue healing.

Growing application of 3D printing technology in the fabrication of customized dental biomaterials, including scaffolds for tissue engineering and patient-specific implants.

The increasing global prevalence of dental diseases, such as periodontitis and caries, leading to tooth loss and the need for restorative and replacement therapies.

The aging global population, which is more prone to tooth loss and requires advanced dental solutions like implants and prosthetics.

The growing demand for esthetic dentistry, driving the use of advanced

biomaterials for natural-looking restorations and cosmetic procedures.

Continuous advancements in biomaterial science and engineering, leading to the development of more biocompatible, durable, and functional dental materials.

Ensuring long-term biocompatibility and preventing adverse tissue reactions to dental biomaterials remain critical challenges.

Dental Biomaterials Market Segmentation

By Type

Metallic Biomaterials

Ceramic Biomaterials

Polymeric Biomaterials

Metal-Ceramic Biomaterials

Natural Biomaterials

Composites Biomaterials

By Bone Graft Material Type

Allograft

Xenograft

Synthetic

By Application

Orthodontics

Implantology

Prosthodontics

Other Applications

By End-User

Dental Hospitals and Clinics

Dental Laboratories

Dental Academies and Research Institutes

Dental Product Manufacturers

Key Companies Analysed

Straumann Group

Geistlich Biomaterials

Zimmer Biomet Holdings Inc.

Dentsply Sirona Inc.

3M Company

Koninklijke DSM N.V.

Carpenter Technology Corporation

Kuraray Co Ltd.

Medtronic plc

Henry Schein Inc.

Mitsui Chemicals Inc.

Victrex plc

Ivoclar Vivadent AG

Green Cross Holdings

Bego Medical GmbH

Institut Straumann AG

BioHorizons IPH Inc.

Nobel Biocare Services AG

ACE Surgical Supply Company Inc.

Biomatlante

Align Technology Inc.

Carestream Dental LLC

Datum Dental Ltd.

VITA Zahnfabrik H Rauter Gr KG

Coltene Whaledent AG

DMG Chemisch-Pharmazeutische Fabrik GmbH

Heraeus Kulzer GmbH

Kavo Dental GmbH

Septodont Holding

Ultradent Products Inc.

VOCO GmbH

Technik GmbH & Co. KG

Dental Biomaterials Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Dental Biomaterials Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Dental Biomaterials market data and outlook to 2034

United States

Canada

Mexico

Europe — Dental Biomaterials market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Dental Biomaterials market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Dental Biomaterials market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Dental Biomaterials market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Dental Biomaterials value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Dental Biomaterials industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Dental Biomaterials Market Report

Global Dental Biomaterials market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Dental Biomaterials trade, costs, and supply chains

Dental Biomaterials market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Dental Biomaterials market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Dental Biomaterials market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Dental Biomaterials supply chain analysis

Dental Biomaterials trade analysis, Dental Biomaterials market price analysis, and Dental Biomaterials supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Dental Biomaterials market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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