

Global Dental Bone Void Filler Market Size Study, By Material (Tricalcium Phosphate Ceramics, Biphasic Calcium Phosphate Ceramics, Calcium Phosphate Cement, Calcium Sulfates, Demineralized Bone Matrix), and Regional Forecasts 2022-2032

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Abstracts

The global dental bone void filler market was valued at USD 96.2 million in 2023 and is projected to grow at a CAGR of 5.9% from 2024 to 2032. The rising prevalence of dental conditions, such as tooth decay, periodontal diseases, and tooth loss, has driven the need for effective restorative procedures. These issues are further exacerbated by an aging global population, leading to increased demand for dental treatments that incorporate bone void fillers.

Advancements in synthetic materials, such as tricalcium phosphate (TCP) and calcium sulfates, have significantly enhanced the biocompatibility and osteoconductivity of dental bone void fillers. These materials not only reduce the risk of disease transmission but also offer extended shelf life and ease of use. Furthermore, innovations in bioactive materials and bone tissue engineering have introduced advanced three-dimensional scaffolds that mimic native extracellular matrices, improving cell adhesion, proliferation, and overall tissue regeneration.

The growing popularity of dental implants, which require sufficient bone volume and density for successful placement, has further fueled the market's growth. Dental bone void fillers are essential in achieving adequate bone density, ensuring implant durability, and enhancing aesthetic outcomes. Additionally, the integration of digital dentistry technologies, such as CAD/CAM, has improved procedural precision, boosting the adoption of these fillers.

Regional Insights: Europe dominated the dental bone void filler market in 2023, accounting for 39.0% of the revenue share, driven by a high prevalence of dental conditions, an aging population, and significant advancements in dental care. North America held the second-largest share (38.2%), supported by robust technological advancements, increasing oral health awareness, and the growing number of implant procedures.

In the Asia Pacific region, which contributed 17.6% to the market share in 2023, rapid urbanization, a large patient population, and improving oral care infrastructure in countries such as China and India are expected to drive growth.

Material Insights: Demineralized Bone Matrix (DBM) was the leading material segment in 2023, owing to its superior osteoinductive potential and the application of innovative processing techniques like freeze-drying and lyophilization.

Tricalcium Phosphate (TCP) is expected to grow at the highest CAGR of 6.9% during the forecast period due to its structural similarity to natural bone, excellent biocompatibility, and ease of use in various dental procedures.

Major Market Players Included in This Report Are:

Curasan, Inc.

Olympus Terumo Biomaterials Corporation

Medtronic

Graftys

Johnson & Johnson Services, Inc.

Stryker

Osteogene Tech

BONESUPPORT AB

ORTHOREBIRTH CO., LTD

The Detailed Segments and Sub-segment of the Market Are Explained Below:

By Material:

Tricalcium Phosphate Ceramics

Biphasic Calcium Phosphate Ceramics

Calcium Phosphate Cement

Calcium Sulfates

Demineralized Bone Matrix (DBM)

Others

By Region:

North America:

U.S.

Canada

Mexico

Europe:

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific:

China

India

Japan

Australia

South Korea

Thailand

Latin America:

Brazil

Argentina

Middle East & Africa (MEA):

South Africa

Saudi Arabia

UAE

Kuwait

Years Considered for the Study Are as Follows:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market estimates & forecasts for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Recommendations on future business strategies.

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