

Global Biomaterials Market Size Study, by Product (Metallic, Natural, Ceramics, Polymers), by Application (Cardiovascular, Ophthalmology, Dental, Orthopedic, Wound Healing, Tissue Engineering, Plastic Surgery, Neurology, Others) and Regional Forecasts 2022-2032

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Abstracts

The Global Biomaterials Market is valued at approximately USD 178.0 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 15.6% over the forecast period 2024-2032. Biomaterials are substances engineered to interact with biological systems for medical purposes, such as implants, prosthetics, and drug delivery systems. These materials are designed to be compatible with living tissues, promoting healing and regeneration while possessing specific mechanical, chemical, and biological properties. Biomaterials play a pivotal role in various medical applications, facilitating advancements in healthcare and improving patient outcomes. The growing incidence of musculoskeletal and chronic skeletal medical conditions is expected to stimulate the demand for implants based on biomaterials, thereby enhancing market expansion. The increasing prevalence of chronic conditions such as osteoarthritis and degenerative diseases intensifies the demand for advanced biomaterials. Joint replacements and augmentations become essential interventions for individuals facing limited mobility and pain due to these conditions. Metallic biomaterials address this need by offering durable and long-lasting solutions that integrate with the body, restoring functionality and enhancing the quality of life for affected individuals. Technological advancements continually refine biomaterials, tailoring them to meet specific medical requirements. Innovations focus on improving biocompatibility, corrosion resistance, and the ability to integrate seamlessly with biological systems. This evolution enables the creation of implants that not only withstand the body's biomechanics but also promote healing and integration, reducing the risk of complications post-implantation. In addition, the aging global population contributes

significantly to the demand for biomaterials. As the population ages, the prevalence of chronic conditions and age-related injuries rises, amplifying the necessity for effective and durable medical interventions. Biomaterials play a crucial role in addressing these healthcare challenges by offering solutions that align with the unique needs of an aging demographic. Furthermore, the demand for novel biomaterials has been increasing in recent years owing to their growing application in tissue replacement and repair, such as bones, teeth, and other organs.

North America dominated the overall biomaterials market in 2023 due to the initiatives by various public and private organizations, including the National Science Foundation and the National Institute of Standards and Technology, offering expertise and support regarding the utilization of biomaterials in biomedical applications. This has led to increased adoption of biomaterials in the region. Additionally, favourable government policies and the concentration of numerous major market players in this area have significantly contributed to the regional market share. The Asia Pacific region is expected to grow at the fastest CAGR during the forecast period due to the strategic initiatives implemented by regional participants to strengthen their position in both local and global markets.

Major market players included in this report are:

Medtronic
Evonik Industries AG
Carpenter Technology Corporation
Berkeley Advanced Biomaterials
Invibio Ltd.
Zimmer Biomet Holdings, Inc.
BASF SE
Covalon Technologies Ltd.
Stryker
Johnson & Johnson
Dentsply Sirona
CoorsTek Inc.
Corbion
Regenity Biosciences
Covalon Technologies Ltd.

The detailed segments and sub-segment of the market are explained below:

By Product:

- Metallic
- Natural
- Ceramics

- Polymers

By Application:

- Cardiovascular
- Ophthalmology
- Dental
- Orthopedic
- Wound Healing
- Tissue Engineering
- Plastic Surgery
- Neurology
- 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.

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