

# **Bioceramics Market by Type (Bio-inert, Bio-active, Bio-resorbable), Material Type (Aluminum Oxide, Zirconia, Calcium Phosphate, Calcium Sulfate), Form (Powder, Liquid), Application (Orthopedics, Dental, Biomedical), and Region- Forecast to 2028**

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## **Abstracts**

The bioceramics market is projected to grow from USD 7.4 billion in 2023 to USD 10.2 billion by 2028, at a CAGR of 6.7% during the forecast period. Zirconia-based bioceramics offer several benefits, making them an excellent material for use in dental and medical implants. Zirconia is a bioinert ceramic material that is highly biocompatible, non-toxic, and dimensionally stable. Zirconia-based bioceramics also have antibacterial properties, which prevent bacterial adhesion and promote good oral health. In summary, zirconia-based bioceramics offer excellent biocompatibility, durability, and resistance to wear and corrosion, making them an ideal material for use in dental and medical implants.

“The powder form of bioceramics dominated the overall market, in terms of value.”

Global bioceramics market has been segmented on the basis of form into powder and liquid (injectable). The powder form of bioceramics offers a variety of advantages, especially in the field of restorative dentistry and endodontics. Powder form bioceramics exhibit excellent biocompatibility due to their similarity to biological hydroxyapatite, which make them suitable for a wide range of medical and dental applications.

“Bio-inert type of bioceramics dominated the overall market, in terms of value.”

Bio-inert ceramics accounted for the largest share of global bioceramics market due to the rapidly growing demand in various end-use applications such as orthopedic and

dental implants. Compared to other alternative products like metal and polymer materials, the bioceramics are inorganic, non-metallic solids, strong in compression, and brittle. The majorly used bio-inert ceramic materials in bio-inert type of bioceramics are zirconia (ZrO<sub>2</sub>) and alumina (Al<sub>2</sub>O<sub>3</sub>), as these are chemically stable.

“In terms of value, orthopedic application accounted for the second-largest share of the global bioceramics market.”

Increasing awareness about the benefits of bioceramics among the patients and the health care professionals as well is accounting for the share of growing end-use application of bioceramics in the orthopedic domain. Bioceramics are wide used in the orthopedics applications, such as hip implants, knee implants, and many more due to their high biocompatibility. Dominantly, bio-inert type of bioceramics get majorly preferred in the orthopedic applications.

“During the forecast period, the bioceramics market in Asia Pacific region is projected to register highest CAGR.”

Asia Pacific is projected to be the fastest-growing region the bioceramics market. The market in Asia Pacific region has been undergoing a significant transformation and growth due to the wide presence of well-established material suppliers, bioceramic manufacturers, and many OEMs. One of the other major driver donating to the growth of bioceramic market in the Asia Pacific region is market tourism. People are traveling to countries like China, India and Malaysia for comparatively affordable medical procedures.

This study has been validated through primary interviews with industry experts globally. These primary sources have been divided into the following three categories:

By Company Type- Tier 1- 40%, Tier 2- 33%, and Tier 3- 27%

By Designation- C Level- 50%, Director Level- 30%, and Executives- 20%

By Region- North America- 15%, Europe- 50%, Asia Pacific (APAC) - 20%, Latin America-5%, Middle East & Africa -10%.

The report provides a comprehensive analysis of company profiles:

Prominent companies include Coorstek, Inc. (US), Kyocera Corporation (Japan), Morgan Advanced Materials Plc (UK), CeramTec GmbH (Germany), Tosoh Ceramics Co., Ltd. (Japan), Institut Straumann AG (Switzerland), Berkeley Advanced Biomaterials Inc. (US), DSM (Netherlands), CTL Amedica (US), and 3M (US).

## Research Coverage

This research report categorizes the bioceramics Market by Type (Bio-inert, Bio-active, and Bio-resorbable), Material Type ( Aluminum Oxide, Zirconia, Calcium Phosphate, Calcium Sulfate, Bio-active Glass, Others), Form (Powder, Liquid), Application (Orthopaedic, Dental, and Biomedical), and Region (North America, Europe, Asia Pacific, the Middle East & Africa, and Latin America). The scope of the report includes detailed information about the major factors influencing the growth of the bioceramics market, such as drivers, restraints, challenges, and opportunities. A thorough examination of the key industry players has been conducted in order to provide insights into their business overview, solutions, and services, key strategies, contracts, partnerships, and agreements. New product and service launches, mergers and acquisitions, and recent developments in the bioceramics market are all covered. This report includes a competitive analysis of upcoming startups in the bioceramics market ecosystem.

## Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall bioceramics market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

## The report provides insights on the following pointers:

Analysis of key drivers (Biocompatibility and the growing geriatric population has also contributed to the increase in demand for bioceramics in the field of dentistry and orthopedics), restraints (while bioceramic materials are known for their biocompatibility and resistance to corrosion, concerns about long-term performance and durability of implants and devices may arise), opportunities (increasing medical tourism in Asia – pacific regions), and challenges (the cost

of bioceramic implants and devices, including manufacturing costs, material expenses, and associated healthcare expenditures, can be significant compared to alternative biomaterials.) influencing the growth of the bioceramics market

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the bioceramics market.

**Market Development:** Comprehensive information about lucrative markets – the report analyses the bioceramics market across varied regions.

**Market Diversification:** Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the bioceramics market.

**Competitive Assessment:** In-depth assessment of market shares, growth strategies and service offerings of leading players like Coorstek, Inc. (US), Kyocera Corporation (Japan), Morgan Advanced Materials Plc (UK), CeramTec GmbH (Germany), Tosoh Ceramics Co., Ltd. (Japan), Institut Straumann AG (Switzerland), Berkeley Advanced Biomaterials Inc. (US), DSM (Netherlands), CTL Amedica (US), and 3M (US) among others in the bioceramics market.

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