

Bioceramics Market Report by Material (Alumina, Zirconia, and Others), Biocompatibility (Bio-inert, Bio-active, Bio-resorbable), Application (Dental Care, Orthopedics, and Others), and Region 2024-2032

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Abstracts

The global bioceramics market size reached US\$ 18.0 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 30.9 Billion by 2032, exhibiting a growth rate (CAGR) of 6% during 2024-2032.

Bioceramics refers to a subclass of ceramic materials that are used to repair and replace diseased and damaged parts of the musculoskeletal system. Some of the commonly available materials utilized in the production of bioceramics include bioactive glass, resorbable calcium phosphates, hydroxyapatite, etc. Additionally, they have certain beneficial characteristics, including biocompatibility, non-toxicity, dimensional stability, and chemical inertness. As a result, bioceramics are used in orthopedic load-bearing coatings, dental implants, bone graft substitutes, and bone cement for several applications, such as correcting chronic spinal curvature, aligning and repairing fractures, treating congenital deformities, etc.

Bioceramics Market Trends:

The escalating requirement for biocompatible materials to increase acceptance by the patients' bodies, as well as lower the occurrence of post-surgery infections is primarily driving the global bioceramics market. Moreover, the growing incidences of musculoskeletal conditions, including osteoporosis, osteoarthritis, rheumatoid arthritis, back and neck pain, etc., especially among the geriatric population, are also creating a positive outlook for the global market. Besides this, the emerging trend of early surgical intervention by doctors in case of joint replacements is fueling the utilization of knee, shoulder, and hip implants, which in turn, is propelling the market growth. Furthermore,

the changing food consumption patterns along with the lack of nutrition in diet have resulted in the increasing cases of cavity formation and deteriorated dental health. This, in turn, has led to the elevating need for crowns, bridges, and bristles, eventually contributing to the rising penetration of bioceramics in dental care. Additionally, the escalating popularity of carbon bioceramics owing to its lightweight nature, which offers convenience to patients and surgeons in terms of implant positioning, is also acting as a significant growth-inducing factor. Apart from this, the introduction of new advanced materials, including zirconia toughened alumina and calcium phosphate coatings, is projected to cater to the growth of the global bioceramics market in the coming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global bioceramics market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on material, biocompatibility and application.

Breakup by Material:

- Alumina
- Zirconia
- Others

Breakup by Biocompatibility:

- Bio-inert
- Bio-active
- Bio-resorbable

Breakup by Application:

- Dental Care
- Orthopedics
- Others

Breakup by Region:

- North America
- United States
- Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being CAM Bioceramics B.V., Carborundum Universal Limited (Murugappa Group), CeramTec GmbH, CoorsTek Inc., Dentsply Sirona, Koninklijke DSM N.V., Straumann and Stryker Corporation.

Key Questions Answered in This Report

1. What was the size of the global bioceramics market in 2023?
2. What is the expected growth rate of the global bioceramics market during 2024-2032?
3. What are the key factors driving the global bioceramics market?
4. What has been the impact of COVID-19 on the global bioceramics market?
5. What is the breakup of the global bioceramics market based on the material?
6. What is the breakup of the global bioceramics market based on the application?
7. What are the key regions in the global bioceramics market?
8. Who are the key players/companies in the global bioceramics market?

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