

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?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL BIOCERAMICS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY MATERIAL

- 6.1 Alumina
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Zirconia
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Others

6.3.1 Market Trends

6.3.2 Market Forecast

7 MARKET BREAKUP BY BIOCOMPATIBILITY

7.1 Bio-inert

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Bio-active

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Bio-resorbable

7.3.1 Market Trends

7.3.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

8.1 Dental Care

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Orthopedics

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 Others

8.3.1 Market Trends

8.3.2 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 North America

9.1.1 United States

9.1.1.1 Market Trends

9.1.1.2 Market Forecast

9.1.2 Canada

9.1.2.1 Market Trends

9.1.2.2 Market Forecast

9.2 Asia-Pacific

9.2.1 China

9.2.1.1 Market Trends

- 9.2.1.2 Market Forecast
- 9.2.2 Japan
 - 9.2.2.1 Market Trends
 - 9.2.2.2 Market Forecast
- 9.2.3 India
 - 9.2.3.1 Market Trends
 - 9.2.3.2 Market Forecast
- 9.2.4 South Korea
 - 9.2.4.1 Market Trends
 - 9.2.4.2 Market Forecast
- 9.2.5 Australia
 - 9.2.5.1 Market Trends
 - 9.2.5.2 Market Forecast
- 9.2.6 Indonesia
 - 9.2.6.1 Market Trends
 - 9.2.6.2 Market Forecast
- 9.2.7 Others
 - 9.2.7.1 Market Trends
 - 9.2.7.2 Market Forecast
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.1.1 Market Trends
 - 9.3.1.2 Market Forecast
 - 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
 - 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
 - 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
 - 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
 - 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
 - 9.3.7 Others

9.3.7.1 Market Trends

9.3.7.2 Market Forecast

9.4 Latin America

9.4.1 Brazil

9.4.1.1 Market Trends

9.4.1.2 Market Forecast

9.4.2 Mexico

9.4.2.1 Market Trends

9.4.2.2 Market Forecast

9.4.3 Others

9.4.3.1 Market Trends

9.4.3.2 Market Forecast

9.5 Middle East and Africa

9.5.1 Market Trends

9.5.2 Market Breakup by Country

9.5.3 Market Forecast

10 SWOT ANALYSIS

10.1 Overview

10.2 Strengths

10.3 Weaknesses

10.4 Opportunities

10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 CAM Bioceramics B.V.

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.2 Carborundum Universal Limited (Murugappa Group)

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.2.3 Financials

14.3.3 CeramTec GmbH

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

14.3.4 CoorsTek Inc.

14.3.4.1 Company Overview

14.3.4.2 Product Portfolio

14.3.5 Dentsply Sirona

14.3.5.1 Company Overview

14.3.5.2 Product Portfolio

14.3.5.3 Financials

14.3.5.4 SWOT Analysis

14.3.6 Koninklijke DSM N.V.

14.3.6.1 Company Overview

14.3.6.2 Product Portfolio

14.3.6.3 Financials

14.3.6.4 SWOT Analysis

14.3.7 Straumann

14.3.7.1 Company Overview

14.3.7.2 Product Portfolio

14.3.7.3 Financials

14.3.7.4 SWOT Analysis

14.3.8 Stryker Corporation

14.3.8.1 Company Overview

14.3.8.2 Product Portfolio

14.3.8.3 Financials

14.3.8.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Bioceramics Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Bioceramics Market Forecast: Breakup by Material (in Million US\$), 2024-2032

Table 3: Global: Bioceramics Market Forecast: Breakup by Biocompatibility (in Million US\$), 2024-2032

Table 4: Global: Bioceramics Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 5: Global: Bioceramics Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 6: Global: Bioceramics Market: Competitive Structure

Table 7: Global: Bioceramics Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Bioceramics Market: Major Drivers and Challenges
- Figure 2: Global: Bioceramics Market: Sales Value (in Billion US\$), 2018-2023
- Figure 3: Global: Bioceramics Market Forecast: Sales Value (in Billion US\$), 2024-2032
- Figure 4: Global: Bioceramics Market: Breakup by Material (in %), 2023
- Figure 5: Global: Bioceramics Market: Breakup by Biocompatibility (in %), 2023
- Figure 6: Global: Bioceramics Market: Breakup by Application (in %), 2023
- Figure 7: Global: Bioceramics Market: Breakup by Region (in %), 2023
- Figure 8: Global: Bioceramics (Alumina) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 9: Global: Bioceramics (Alumina) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 10: Global: Bioceramics (Zirconia) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 11: Global: Bioceramics (Zirconia) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 12: Global: Bioceramics (Other Materials) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 13: Global: Bioceramics (Other Materials) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 14: Global: Bioceramics (Bio-inert) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 15: Global: Bioceramics (Bio-inert) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 16: Global: Bioceramics (Bio-active) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 17: Global: Bioceramics (Bio-active) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 18: Global: Bioceramics (Bio-resorbable) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 19: Global: Bioceramics (Bio-resorbable) Market Forecast: Sales Value (in Million US\$), 2024-2032
- Figure 20: Global: Bioceramics (Dental Care) Market: Sales Value (in Million US\$), 2018 & 2023
- Figure 21: Global: Bioceramics (Dental Care) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 22: Global: Bioceramics (Orthopedics) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 23: Global: Bioceramics (Orthopedics) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 24: Global: Bioceramics (Other Applications) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 25: Global: Bioceramics (Other Applications) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 26: North America: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 27: North America: Bioceramics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 28: United States: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 29: United States: Bioceramics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 30: Canada: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 31: Canada: Bioceramics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 32: Asia-Pacific: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 33: Asia-Pacific: Bioceramics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 34: China: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 35: China: Bioceramics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 36: Japan: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 37: Japan: Bioceramics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 38: India: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 39: India: Bioceramics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 40: South Korea: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 41: South Korea: Bioceramics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 42: Australia: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 43: Australia: Bioceramics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 44: Indonesia: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 45: Indonesia: Bioceramics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 46: Others: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 47: Others: Bioceramics Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 48: Europe: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 49: Europe: Bioceramics Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 50: Germany: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 51: Germany: Bioceramics Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 52: France: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 53: France: Bioceramics Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 54: United Kingdom: Bioceramics Market: Sales Value (in Million US\$), 2018 &
2023

Figure 55: United Kingdom: Bioceramics Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 56: Italy: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 57: Italy: Bioceramics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 58: Spain: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 59: Spain: Bioceramics Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 60: Russia: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 61: Russia: Bioceramics Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 62: Others: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 63: Others: Bioceramics Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 64: Latin America: Bioceramics Market: Sales Value (in Million US\$), 2018 &
2023

Figure 65: Latin America: Bioceramics Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 66: Brazil: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 67: Brazil: Bioceramics Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 68: Mexico: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 69: Mexico: Bioceramics Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 70: Others: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 71: Others: Bioceramics Market Forecast: Sales Value (in Million US\$),

2024-2032

Figure 72: Middle East and Africa: Bioceramics Market: Sales Value (in Million US\$), 2018 & 2023

Figure 73: Middle East and Africa: Bioceramics Market: Breakup by Country (in %), 2023

Figure 74: Middle East and Africa: Bioceramics Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 75: Global: Bioceramics Industry: SWOT Analysis

Figure 76: Global: Bioceramics Industry: Value Chain Analysis

Figure 77: Global: Bioceramics Industry: Porter's Five Forces Analysis

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