Global Bioceramics Market - Segmented by Material, Type, End-User Industry and Geography - Trends and Forecasts (2015 - 2020)

Description: The Global Bioceramics Market expected to record a CAGR of 6.1% during the forecast period from 2015 to 2020 with its market demand which was USD 12.5 billion in 2015 and is expected to reach USD 16.8 billion by 2020. Bioceramics are ceramic materials that are biocompatible and these owing to their properties such as biocompatible, wear resistant, light weight, are used in various applications and mostly for repair and replacement of diseased and damaged parts of the musculoskeletal system. Their diverse properties make bioceramics be used in a variety of applications in surgical implants, dental and bone implants, joint replacements, bone graft substitutes, dental implants, orthopedic load-bearing coatings, etc.

This market is driven by a number of factors, such as growing demand for medical services and devices, demand for biocompatible materials, increased usage in dental care, usage in replacement of hard tissues of the body and also due to the growing need to maintain healthy lifestyle. Increasing need for implants continues to increase the demand for implantable bioceramics and composites. Rising urban populations and increasing consumer incomes are other market drivers. However, this market faces certain drawbacks, such as these bioceramics are not resilient and are not easy to fabricate. These factors may act as a roadblock to the growth of the market.

Bioceramics market has been divided according to the material type into Aluminium oxide, Zirconia, Calcium Phosphate, Calcium Sulfate, Carbon, Glass where Alumina dominate the global market accounting for over 62% in 2014. Alumina used extensively in implants for dental and joint applications. zirconia is also key ceramic materials for bone implants, which is primarily used due to its chemical inertness and mechanical strength. The Bioceramics market has also been divided according to the product type such as Bioinert, Bioactive and Bio-resorbable. Bioinert ceramics provides corrosion and wear resistance and are typically used as structural-support implant such as bone plates, bone screw, femoral heads. Bioactive ceramics are glass ceramics, dense non porous glasses. Bio-resorbable ceramics are calcium phosphate, calcium sulphate, hydroxyapatite, tricalcium phosphate, Ferric-calcium-phosphorous oxides. The Bioceramics market has also been divided based on end user industry into orthopedic, Bone grafting, tissue engineering, dental care, drug delivery systems, cardiovascular and few others.

The market has also been geographically segmented into Asia-Pacific, North America, Europe, and South America. Europe is the largest and the fastest growing market for Bioceramics with a major share of the total market. Positive outlook towards the orthopedic sector in Germany, is expected to drive market growth. Also, Asia Pacific's bioceramics market in orthopaedic sector is also growing which is due to the rapidly expanding elderly population, where China market to witness strong growth in bioceramics market in this region as it is driven by the fact that people are gaining access to advanced medical treatment as healthcare reform reaches China's rural regions. North America's bioceramics market also expected to increase due to research in bioceramics, increase in cancer incidences, growing prevalence of cardiovascular diseases in the U.S and increasing funding and R&D activities in Canada.

There is an increasing demand of Bioceramics due to its various uses in biomedical fields, advancements in medical technology and increasing demand for medical devices, dental crowns, bridges, and bristles leading to the growth of the bioceramics market. Also, due to the development of biomimetic composites and developing methods to produce customized nanoceramics, there is a constant increase in the demand for Bioceramics which may result in higher growth rates leading to increase in the Bioceramics manufacturers. Some of the major companies dominating this market for its products, services, and continuous product developments are Royal DSM, Wright Medical Technology Inc., Corbion N.V., Bayer AG, Carpenter Technology Corp., Covalon Technologies Ltd., Evonik Industries AG, Morgan Advanced Materials, Invibio Ltd., Berkeley Advanced Biomaterials, Inc., Medtronic, Ceram Tec, and Amedica Corp.

Key Deliverables in the Study:
- Market analysis for the Global Bioceramics Market, with region specific assessments and competition analysis on global and regional scales
- Market definition along with the identification of key drivers and restraints
- Identification of factors instrumental in changing the market scenarios, rising prospective opportunities,
and identification of key companies that can influence this market on a global and regional scale
- Extensively researched competitive landscape section with profiles of major companies along with their
market shares
- Identification and analysis of the macro and micro factors that affect the global Bioceramics market on
both global and regional scales
- A comprehensive list of key market players along with the analysis of their current strategic interests and
key financial information
- A wide-ranging knowledge and insights about the major players in this industry and the key strategies
adopted by them to sustain and grow in the studied market
- Insights on the major countries/regions in which this industry is blooming and to also identify the regions
that are still untapped.

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Contents:

1. Introduction
   1.1 Description
   1.2 Research Methodology
2. Executive Summary
3. BioCeramics Market
   3.1 Market Definition
   3.2 Industry Value Chain Analysis
   3.3 Industry Attractiveness - Porter's Five Forces Analysis
4. Market Dynamics
   4.1 Drivers
      4.1.1 Rising Demand for Medical Services & Devices
      4.1.2 Growing Demand for Biocompatible Materials
      4.1.3 Increasing Usage in Dental Care
      4.1.4 Growing Need to Maintain a Healthy Lifestyle
      4.1.5 Rising Ageing Population
      4.1.6 Increasing Usage for Replacing Diseased Hard Tissues of the Body
   4.2 Restraints
      4.2.1 Stringent Environment Regulations by Government
      4.2.2 Difficult to Fabricate and is Not Resilient
      4.2.3 Inflammatory Responses
   4.3 Opportunities
      4.3.1 Growing Usage as Treatment for Cancer
      4.3.2 Development of Biomimetic Composites
      4.3.3 Developing Methods to Produce Customized Nanoceramics
      4.3.4 Improvements to the Fabrication
5. Market Segmentation and Analysis
   5.1 By Material
      5.1.1 Aluminium Oxide
      5.1.2 Zirconia
      5.1.3 Calcium Phosphate
      5.1.4 Calcium Sulfate
      5.1.5 Carbon
      5.1.6 Glass
   5.2 By Type
      5.2.1 Bioinert
      5.2.2 Bioactive
      5.2.3 Bio-resorbable
   5.3 By End-User Industry
      5.3.1 Bio-medical
      5.3.2 Orthopaedic
      5.3.3 Bone Grafting
      5.3.4 Tissue Engineering
      5.3.5 Dental
      5.3.6 Drug Delivery Systems
      5.3.7 Cardiovascular
6. Regional Analysis
   6.1 Asia-Pacific
6.1.1 India  
6.1.2 China  
6.1.3 Japan  
6.1.4 South Korea  
6.1.5 Australia  
6.1.6 New Zealand  
6.1.7 Rest of Asia-Pacific  
6.2 Europe  
6.2.1 Germany  
6.2.2 UK  
6.2.3 France  
6.2.4 Italy  
6.2.5 Rest of Europe  
6.3 North America  
6.3.1 United States  
6.3.2 Canada  
6.3.3 Mexico  
6.4 South America  
6.4.1 Brazil  
6.4.2 Argentina  
6.4.3 Rest of South America  
6.5 Middle-East and Africa  
6.5.1 Saudi Arabia  
6.5.2 South Africa  
6.5.3 Rest of Middle-East and Africa  
7. Price Analysis  
8. Future of BioCeramics Market  
9. Competitive Landscape  
9.1 Mergers and Acquisition  
9.2 Joint Ventures, Collaborations, and Agreements  
9.3 Market Share Analysis  
9.4 Strategies Adopted by Leading Players  
10. Company Profiles  
10.1 Evonik Industries AG  
10.2 Amedica Corp.  
10.3 Morgan Advanced Materials  
10.4 Bayer AG  
10.5 Berkeley Advanced Biomaterials, Inc.  
10.6 CAM Bioceramics BV  
10.7 Carpenter Technology Corp.  
10.8 CeramTec  
10.9 Collagen Matrix, Inc.  
10.10 Corbion N.V.  
10.11 Covalon Technologies Ltd.  
10.12 DENTSPLY International, Inc.  
10.13 Invibio Ltd.  
10.14 Nobel Biocare  
10.15 Stryker  
10.16 Osteotec  
10.17 Royal DSM  
10.18 Tosoh Corp.  
10.19 Wright Medical Technology, Inc.  
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