Medical Ceramics Market by Material, by Application and by Region - Global Forecast to 2020

Description:

“The growing implantable devices and the healthcare industry in emerging countries are driving the market for medical ceramics”

The market size for medical ceramics is projected to reach USD 16.3 billion by 2020, registering a CAGR of 6.4% between 2015 and 2020. Increasing demand from the implantable devices for surgical methods is the major driver for the medical ceramics market. The global healthcare industry is expected to rise with the growing demand from various applications such as surgical implants and orthopedic surgeries. With some major economies, such as the U.S., India, China, Germany, Italy, and France, the market is expected to grow further. Dental and orthopedic implants are the major applications of medical ceramics due to increase in the demand from countries like China, India, Indonesia, and Brazil. Moreover, medical ceramics are also used in therapeutic treatment of cancer and related diseases and in dialysis due to their high bio-compatibility. Asia-Pacific is the fastest-growing market for medical ceramics.

Dental Implants, the largest application for medical ceramics

Dental implants are the largest application of medical ceramics worldwide. Alumina, titanium, and zirconia are the major materials used for this application. As ceramics are characterized with high mechanical strength, excellent biocompatibility, tribological properties, and dimensional stability, these are ideal materials preferred for dental implants application. The use of medical ceramics is growing significantly with the development of more advanced and specialized ceramics, as they are much more compatible and versatile than initially used bio-metals. Furthermore, the dental implants application is expected to boost further with the increasing awareness of dental care & oral hygiene, from developed to developing economies. The growth of the dental implants market is attributed to the rising urban population and increasing consumer incomes all across the globe.

Asia-Pacific: the fastest-growing market for medical ceramics

Asia-Pacific is the fastest-growing region for the medical ceramics market, during the projected period. The high growth is due to the rising end-use applications such as dental implants, orthopedic implants, surgical & diagnostic instruments, implantable electronic devices, and others. The rapidly growing demand in end-use applications, competitive manufacturing costs, and high economic growth rate are the favorable forces for growth of medical ceramics market in this region. China and India are among the fastest-growing economies in the world. The factors driving the growth of the market in Asia-Pacific include Japan's growing medical industry, rising cosmetic & plastic surgeries in India, growing number of cardiovascular diseases, rate of increasing aging population in China than in other countries in Asia-Pacific, rising cases of hip & knee replacement procedures in Indonesia, and increasing research activities in Malaysia.

This study has been validated through primaries conducted with various industry experts, globally. These primary sources have been divided in three categories: by company type, designation, and region.

- By Company Type- Tier 1- 35%, Tier 2- 45%, and Tier 3- 20%
- By Managers- 35%, Research & Consultants- 25%, and Others- 40%
- By Region- North America- 45%, Asia-Pacific- 30%, Europe- 20%, and RoW- 5%

The report also includes company profiles and competitive strategies adopted by the major market players such as CoorsTek Inc. (U.S.), CeramTec GmbH (Germany), Kyocera Corporation (Japan), and Morgan Advanced Materials (U.K.).

Reasons to buy the report:

- To understand the global, regional, and national scenarios
- To understand the market trends and dynamics along with key factors affecting it
- To identify the present and upcoming market opportunities
- To identify the potential markets in various regions for medical ceramics
- To track the recent developments in the medical ceramics market
- To understand the competitive background of the industry and positioning of participants in the market

Contents:

1 Introduction
   1.1 Objectives Of The Study
   1.2 Market Definition
   1.3 Market Scope
      1.3.1 Markets Covered
      1.3.2 Years Considered In The Report
      1.3.3 Currency And Pricing
   1.4 Limitations
   1.5 Stakeholders
2 Research Methodology
   2.1 Research Data
      2.1.1 Secondary Data
         2.1.1.1 Key Data From Secondary Sources
      2.1.2 Primary Data
         2.1.2.1 Key Data From Primary Sources
         2.1.2.2 Key Industry Insights
      2.2 Market Size Estimation
      2.3 Market Breakdown And Data Triangulation
      2.4 Market Share Estimation
   2.5 Assumptions
3 Executive Summary
4 Premium Insights
   4.1 Attractive Market Opportunities In The Medical Ceramics Market
   4.2 Medical Ceramics Market: By Material
   4.3 Asia-Pacific Medical Ceramics Market: By Application
   4.4 Medical Ceramics Market Attractiveness
   4.5 Medical Ceramics Market: Developing Vs. Developed Nations
   4.6 Lifecycle Analysis, By Region
5 Market Overview
   5.1 Introduction
   5.2 Market Segmentation
      5.2.1 By Material
      5.2.2 By Application
   5.3 Market Dynamics
      5.3.1 Drivers
         5.3.1.1 Growing Implantable Devices Market
         5.3.1.2 Availability Of Substitute For Metals
         5.3.1.3 Growing Healthcare Sector In The Emerging Markets
      5.3.2 Restraints
         5.3.2.1 Stringent Clinical And Regulatory Processes
         5.3.2.2 Unfavorable Healthcare Reforms In The U.S.
      5.3.3 Opportunities
         5.3.3.1 Growing Nanotechnology In Medical Ceramics
      5.3.4 Challenges
         5.3.4.1 Issues About Reparability And Recycling Process
6 Industry Trends
   6.1 Value-Chain Analysis
   6.2 Raw Material Suppliers
   6.3 Manufacturers And Formulators
   6.4 Suppliers And Distributors
   6.5 End-Use Applications
   6.6 Porter'S Five Forces Analysis
      6.6.1 Bargaining Power Of Suppliers
      6.6.2 Threat Of New Entrants
      6.6.3 Threat Of Substitutes
      6.6.4 Bargaining Power Of Buyers
      6.6.5 Intensity Of Rivalry
   7 Medical Ceramics Market, By Material
      7.1 Introduction
7.2 Market Size & Projection
7.3 Bio-Inert Ceramics
7.3.1 Aluminum Oxide (Al2O3)
7.3.2 Zirconia Oxide (Zro2)
7.4 Bio-Active Ceramics
7.4.1 Bio Glass
7.4.2 Glass Ceramics
7.5 Bio-Resorbable Ceramics
7.6 Piezo Ceramics
8 Medical Ceramics Market, By Application
8.1 Introduction
8.2 Dental Implants
8.3 Orthopedic Implants
8.4 Surgical Instruments
8.5 Implantable Electronic Devices
8.6 Diagnostic Instruments
8.7 Other Applications
9 Medical Ceramics Market, By Region
9.1 Introduction
9.2 Asia-Pacific
9.2.1 China
9.2.2 Japan
9.2.3 South Korea
9.2.4 India
9.2.5 Indonesia
9.2.6 Malaysia
9.2.7 Rest Of Asia-Pacific
9.3 North America
9.3.1 U.S.
9.3.2 Canada
9.3.3 Mexico
9.4 Europe
9.4.1 Germany
9.4.2 Turkey
9.4.3 France
9.4.4 U.K.
9.4.5 Italy
9.4.6 Spain
9.4.7 Rest Of Europe
9.5 Row
9.5.1 Brazil
9.5.2 Others
10 Competitive Landscape
10.1 Introduction
10.2 Competitive Situations And Trends
10.3 Mergers & Acquisitions
10.4 New Product Launches/Developments
10.5 Expansions
11 Company Profiles
(Overview, Products & Services, Strategies & Insights, Developments And View)*
11.1 Introduction
11.2 Coorstek Inc.
11.3 Ceramtec Gmbh
11.4 Kyocera Corporation
11.5 Morgan Advanced Materials PLC
11.6 Ngk Spark Plug Co., Ltd.
11.7 Saint - Gobain Ceramic Materials
11.8 Depey Synthes
11.9 Rauschert Gmbh
11.10 H.C. Starck Gmbh
*Details On Overview, Products & Services, Strategies & Insights, Developments And View Might Not Be Captured In Case Of Unlisted Companies.
12 Appendix
List of Tables

Table 1 Medical Ceramics Market, By Material
Table 2 Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 3 Comparision Of Mechanical Properties Of Zirconia And Alumina
Table 4 Bio-Inert Ceramics Market Size, By Region, 2013 - 2020 (USD Million)
Table 5 Bio-Active Ceramics Market Size, By Region, 2013 - 2020 (USD Million)
Table 6 Bio-Resorbable Ceramics Market Size, By Region, 2013 - 2020 (USD Million)
Table 7 Piezo Ceramics Market Size, By Region, 2013 - 2020 (USD Million)
Table 8 Medical Ceramics Market Size In Dental Implants, By Region, 2013 - 2020 (USD Million)
Table 9 Medical Ceramics Market Size In Orthopedic Implants, By Region, 2013 - 2020 (USD Million)
Table 10 Medical Ceramics Market Size In Surgical Instruments, By Region, 2013 - 2020 (USD Million)
Table 11 Medical Ceramics Market Size In Implantable Electronic Devices, By Region, 2013 - 2020 (USD Million)
Table 12 Medical Ceramics Market Size In Diagnostic Instruments, By Region, 2013 - 2020 (USD Million)
Table 13 Medical Ceramics Market Size In Other Applications, By Region, 2013 - 2020 (USD Million)
Table 14 Medical Ceramics Market Size, By Region, 2013 - 2020 (USD Million)
Table 15 Asia-Pacific: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 16 Asia-Pacific: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 17 China: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 18 China: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 19 Japan: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 20 Japan: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 21 South Korea: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 22 South Korea: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 23 India: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 24 India: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 25 Indonesia: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 26 Indonesia: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 27 Malaysia: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 28 Malaysia: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 29 Rest Of Asia-Pacific: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 30 Rest Of Asia-Pacific: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 31 North America: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 32 North America: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 33 U.S.: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 34 U.S.: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 35 Canada: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 36 Canada: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 37 Mexico: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 38 Mexico: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 39 Europe: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 40 Europe: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 41 Germany: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 42 Germany: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 43 Turkey: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 44 Turkey: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 45 France: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 46 France: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 47 U.K.: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 48 U.K.: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 49 Italy: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 50 Italy: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 51 Spain: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 52 Spain: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 53 Rest Of Europe: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 54 Rest Of Europe: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 55 RoW: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 56 RoW: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 57 Brazil: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Table 58 Brazil: Medical Ceramics Market Size, By Application, 2013 - 2020 (USD Million)
Table 59 Others: Medical Ceramics Market Size, By Material, 2013 - 2020 (USD Million)
Figure 50 H.C. Starck Gmbh: Company Snapshot

Ordering:

Order Online - [http://www.researchandmarkets.com/reports/3607746/](http://www.researchandmarkets.com/reports/3607746/)

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: Medical Ceramics Market by Material, by Application and by Region - Global Forecast to 2020
Web Address: http://www.researchandmarkets.com/reports/3607746/
Office Code: SCBRYW9L

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User:</td>
<td>□</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 5 Users:</td>
<td>□</td>
</tr>
<tr>
<td>Electronic (PDF) - Site License:</td>
<td>□</td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprisewide:</td>
<td>□</td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: [Mr] [Mrs] [Dr] [Miss] [Ms] [Prof]
First Name: __________________________________________ Last Name: _______________________________________
Email Address: * ______________________________________
Job Title: __________________________________________
Organisation: ______________________________________
Address: __________________________________________
City: ______________________________________________
Postal / Zip Code: __________________________________
Country: __________________________________________
Phone Number: _____________________________________
Fax Number: _______________________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ______________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World