

# Medical Ceramics Market to Surpass US\$ 5.90 Billion Threshold by 2025 Globally

*Medical Ceramics Market to Surpass US\$ 5.90 Billion Threshold by 2025 Globally Owing to Rising Bone Tumors*

SEATTLE, WASHINGTON, UNITED STATES, January 31, 2018 /EINPresswire.com/ -- The Global [Medical Ceramics Market](#), by Material (Bio-inert (Aluminum Oxide, Zirconia, Carbon), Bio-active (Hydroxyapatite (HAP), Glass and Bioglass, zirconia alumina composite), Bio-resorbable, and Piezo Ceramics), by Application (Surgical Implants, Dental Implants, Orthopedic Implants, and Others), Medical Tools and Devices, and Prosthetics), and by Region (North America, Latin America, Europe, Asia Pacific, the Middle East, and Africa) was valued at US\$ 3.83 billion in 2017 and is projected to exhibit a CAGR of 6.1% over the forecast period (2017–2025), as highlighted in a new report published by Coherent Market Insights.

Medical ceramics are products, which repairs or replaces musculoskeletal hard connective tissues. Bioceramics is used in various application, however, it is primarily used in implants such as alumina hip prostheses. Biocompatibility of medical ceramics is a major factor for increasing usage of these materials in prosthetics, surgical implants, and other invasive medical devices and tools. Development of new ceramics using different technology especially for dental and orthopedic implants is a factor for growth of the market over the forecast period. In dental implants, titanium material is the most widely used material for dental implantology since the recent past, owing to its biocompatible properties. However, zirconia is gaining popularity as one of the materials, which might replace the gold standard of dental implant.

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Browse 23 Market Data Tables and 28 Figures spread through 170 Pages and in-depth TOC on "Medical Ceramics Market, by Material (Bio-inert (Aluminum Oxide, Zirconia, Carbon), Bio-active (Hydroxyapatite (HAP), Glass and Bioglass, zirconia alumina composite), Bio-resorbable, and Piezo Ceramics), by Application (Surgical Implants (Dental Implants, Orthopedic Implants, and Others), Medical Tools and Devices, and Prosthetics)- Global Forecast to 2025"

Increasing incidences of bone cancers such as osteosarcoma, chondrosarcoma, and Ewing's sarcoma, which require bone replacement or surgeries, is in turn expected to propel growth of the medical ceramics market. According to the American Society of Clinical Oncology, 2014, bone sarcomas account for 0.2% of all malignancies globally with the incidence rate for bone and joint malignancies to be 0.9 per 100,000 people annually, in the U.S. As ceramics are characterized with high biocompatibility, mechanical strength, dimensional stability and tribological properties, these are ideal materials for dental implants. The use of bioceramics and piezoceramics is increasing significantly with the development of more advanced and specialized ceramics as these are more compatible and versatile than previous biomaterials. According to American



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Association of Oral and Maxillofacial Surgeons, 2014, 69% of adults aged 35 to 44 have lost at least one permanent tooth to an accident, gum disease, a failed root canal or tooth decay. Furthermore, by age 74, 26% of adults have lost all of their permanent teeth. Therefore, the dental implants placed per year was 100,000–300,000, which approximates the numbers of artificial hip and knee joints placed per year. With increasing orthopedic and dental implant surgeries, demand for these ceramics is expected to increase in the near future.

Development of new ceramics with wide range of applications especially in promoting regenerative tissues and restoring physiological functions is a major factor contributing to the growth of medical ceramics market. Researchers in Germany are working to develop tailored bone implants by combining ceramics and polymers with diamond nanoparticles to print biocompatible bone substitutes of the required size and shape. These increase in the research and development activities is expected to enhance the competitive environment among the manufacturers. For instance, in March 2017, CeramTec launched its newly developed dental ceramic, Zirconium Oxide Bright at International Dental Show (IDS) in Cologne, Germany. The material offers enhanced translucency and strength and is suitable for all dental prostheses treatments.

Key Takeaways of the Medical Ceramics Market:

The global medical ceramics market is expected to exhibit a CAGR of 6.1% over the forecast period, owing to increase in fracture rates with the increasing in geriatric population

Based on materials, bio-inert ceramics segment held a dominant position in the market in 2017, as these material implants have enhanced wear resistant and biocompatible properties

To know the latest trends and insights related to medical ceramics market, click the link below:  
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Based on application, the surgical implants segment is expected to hold a dominant position in the medical ceramics market over the forecast period. Rising number of surgery procedures mainly in orthopedic and dental expected to increase the consumption of surgical implants in the near future.

Some of the major players operating in the global medical ceramics market are CoorsTek Medical, H.C. Starck GmbH, Tosoh Corporation, Noritake Co., Ltd., 3M ESPE, Morgan Advanced Materials plc, Ceramtec, PI Ceramic GmbH, Lithoz, and Kyocera Corporation.

About Coherent Market Insights:

Coherent Market Insights is a prominent market research and consulting firm offering action-ready syndicated research reports, custom market analysis, consulting services, and competitive analysis through various recommendations related to emerging market trends, technologies, and potential absolute dollar opportunity.

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