Medical Ceramics Market - By Type (Bio-Inert Ceramics, Bio-Active Ceramics, Bio-Resorbable Ceramics, Piezo Ceramics & Others) By Application - Forecast(2016-2021)

Description:

Ceramics are products that are made by firing non-metallic materials at high temperatures. Some of the materials used in producing ceramics include alumina, zirconia (TZP), and single crystal piezoelectric. Medical ceramics or bio ceramics are frequently used in the medical field owing to their biocompatibility. They are majorly used in surgical implants, prosthetics and numerous medical tools and devices. Medical ceramics have been permitted by many regulatory authorities such as the U.S. Food and Drug Administration (FDA). The nontoxicity and high mechanical strength of medical ceramics with minimal or no tissue reaction is anticipated to enhance the demand from the global medical ceramics market.

Although medical ceramics are nontoxic, very minor traces of radioelements can be found in even fully refined ceramics, which can have a negative impact on organs and tissues. This can obstruct the development of the global medical ceramics market in the near future. The latest products of medical ceramics are electronic implantable ceramic sensors, which are expected to open new opportunities for the overall market.

The report divides the global medical ceramics market owing to their application areas such as dental, orthopedic, implantable electronic devices, surgical and diagnostic instruments, and other therapeutic applications. The practice of medical ceramics in dental and orthopedic applications has been widespread. Orthodontic ceramic braces are as effective as metal braces, but are approximately invisible which makes it more attractive cosmetic option for the wearer. Ceramic implants are widely used to reconstruct arthritic or fractured joints in knee, hip, and shoulder.

Dental and orthopedic implants are the main 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.

The global medical ceramics market was estimated to be $XX billion in 2015. The global market for medical ceramics is estimated to grow at a CAGR of XX% and is forecast to reach $XX billion by 2021.

APAC is the fastest-growing region for the medical ceramics market, during the projected period. The high growth is attributed to the growing applications such as dental implants, orthopedic implants, surgical & diagnostic instruments, implantable electronic devices, and others. The rapidly growing demand in end-use applications, inexpensive production costs along with high economic growth rate are the favorable forces for growth of medical ceramics market in this region.

Dental Implants to Drive the Use of Medical Ceramics

Dental implants are the main application segment served by medical ceramics worldwide. Some of the major materials used for this application are Alumina, titanium and zirconia. Ceramics possess high mechanical strength, outstanding biocompatibility, tribological properties as well as dimensional stability. Owing to these characteristics, ceramics are considered as the ideal materials for dental implants uses. The usage of medical ceramics is increasing rapidly with the advancement of specialized ceramics. Moreover, they are also compatible and adaptable than any other used bio-metals. Additionally, the dental implants application segment is anticipated further drive the market with growing consciousness of dental care & oral hygiene, from developed to developing economies.

The global medical ceramics market is evaluated based on key attributes such as base materials, application and others. Each of the segmentations in the report has been studied to give comprehensive analysis of global medical ceramics market. The overall market has also been consolidated from the perspective of different geographic locations into standard geographic regions and key economies for this market. Additionally, this report encompasses opportunity analysis, porter analysis, pricing analysis and market forces such as drivers, constraints and challenges that are involved to drive the overall market.
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10.12. APC International Ltd
10.13. AVX Corporation
10.15. BCE Special Ceramics GmbH
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