

Medical Ceramics – A Global Market Overview

“The report reviews, analyzes and projects the global market for Medical Ceramics for the period 2014-2022.”

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SUMMARY

Ceramics constitute a family of materials that are produced by firing non-metallic materials at high temperatures. Two of the most common materials that can be utilized for manufacturing ceramics include alumina and zirconia. These can be fabricated in such a way as to increase their biocompatibility, following which they are called medical ceramics or bioceramics and find application in the medical industry. These materials are extensively employed in surgical implants, prosthetics and a number of medical tools and devices.

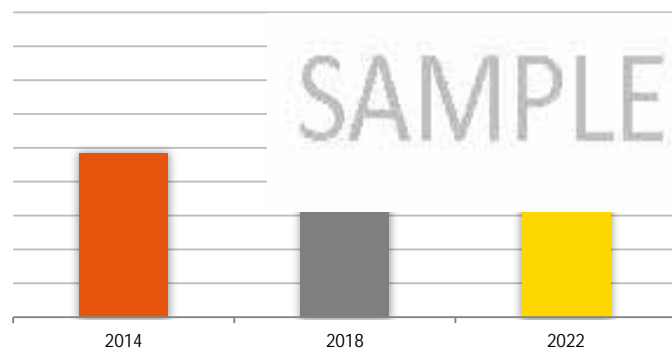
The non-toxic nature and high mechanical strength of medical ceramics, coupled with negligible or no tissue reaction are the major characteristics that render them to be used in medical applications. On the basis of type, medical ceramics are classified, in this report, as Bioactive, Bioinert and Bioresorbable, with Bioinert being the largest, as also the fastest growing category. In comparison to metal and polymer materials, these ceramics are inorganic, non-metallic solids that have strong compressive strength and are brittle. Zirconia (ZrO₂) and alumina (Al₂O₃) form the two most widely used bioinert ceramics owing to their chemical stability. Bioinert ceramics find application in bone tissue applications due to their features, such as biocompatibility, non-toxicity, non-inflammatory, non-allergic, non-carcinogenicity and bio-functionality. These ceramics find wide use in dental and orthopedic implants and demand for them in these areas is likely to maintain rapid growth.

This global report analyzes the key applications of medical ceramics including Dental Implants, Implantable Electronic Devices, Orthopedic Implants, Surgical & Diagnostic Instruments and Other. The global markets for the above-mentioned applications are analyzed in terms of value in USD for 2014-2022 analysis period. Accounting for an estimated share of 31.2% equating to US\$4.2 billion in 2016, Dental Implants represent the largest application area for Medical Ceramics globally, demand for which is forecast to be US\$4.5 billion in 2017 and is projected to reach US\$6.2 billion by 2022 to reflect the fastest CAGR of 6.7% between 2017 and 2022.

The worldwide market for Medical Ceramics has been categorized into five major regions namely North America, Europe, Asia-Pacific, Latin America and Rest of World. The regional markets further analyzed for 13 independent countries across North America – The United States and Canada; Europe – France, Germany, Italy, and the United Kingdom; Asia-Pacific – China, India, Japan and South Korea; Latin America – Argentina, Brazil and Mexico. The market for medical ceramics is analyzed in terms of value in USD for each region by key country, ceramic type and key applications.

This 312 page global medical ceramics market report includes 193 charts (includes a data table and graphical representation for each chart), supported with meaningful and easy to understand graphical presentation, of market numbers. This report profiles 44 key global players and 58 major players across North America – 24; Europe – 25; Asia-Pacific – 8 and Rest of World – 1. The research also provides the listing of the companies engaged in R&D, manufacturing and supply of medical ceramics. The global list of companies covers the address, contact numbers and the website addresses of 90 companies.

Global Medical Ceramics Market Analysis (2014-2022) in USD Million



SAMPLE COMPANY PROFILE

COORSTEK, INC. (UNITED STATES)

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Business Overview

Established in 1910 and based in Golden, Colorado, CoorsTek Inc., (CoorsTek) is one of the leading developer and manufacturer of ceramics for semiconductor, oil and gas, electronics, energy, medical, machinery, armor and defense markets. The company offers analytical laboratory services such as brazing, bonding, and joining services; custom components and assemblies; grinding, lapping, and polishing services; laser machining services; metalizing services; precision machine-to-print services; and manufacturing consulting services. CoorsTek's products include rings, computer peripheral components, desiccator plates, ESD-safe materials, food and beverage components, bonding tools, hydro cyclone linings, implantable ceramics, knife blades, laser equipment components, metallized ceramics, nozzles, optical components, pulsation equipment, range igniters, semiconductor components, tubes and rods, substrates, valves, wire components, and X-ray tubes. The company operates research & development centers across three continents and 600,000 square meters of manufacturing space in over 50 manufacturing centers worldwide, serving 10,000 customers with export locations covering Europe, North America, South America, and Asia.

Product Portfolio

Product	Type/uses
Implantable Components	CoorsTek offers high-purity CeraSurf®-p medical ceramic components and multi-material assemblies combining high-performance ceramics, metals, and polymers to ensure compatibility and longevity for implantable application.
Ceramic hip implant components	CeraSurf®-p ceramic hip implant femoral heads and acetabular liners (cups) demonstrate extreme durability and longevity
Neobone™ ceramic bone substitute	NeoBone™ hydroxyapatite synthetic bone substitute is a highly functional synthetic bone filler. Its porous, yet rigid structure facilitates the penetration of tissue and provides structure to aid in new tissue formation.
Engineered ceramics	Ceramic materials are designed for optimal performance in medical device applications including: biocompatibility, superior chemical resistance, high strength & rigidity, thermal stability, excellent high-temperature electrical resistivity. Types include ceraPure custom medical ceramic components, ceramic balls & ball blanks, laser ceramic components, valves and valve components and micro dispense nozzles
Durable ceramic materials & precision	CoorsTek provides an array of hard, durable, inert, and corrosion-resistant components for pharmaceutical manufacturing. Types include ceramic blades & sharpeners, ceramic catalyst support media, grinding media, labware, ceramic chemical converters, supports, gauzes, and ferrules, tubes & rods, valves and valve components, pulsation equipment and hard face seal components

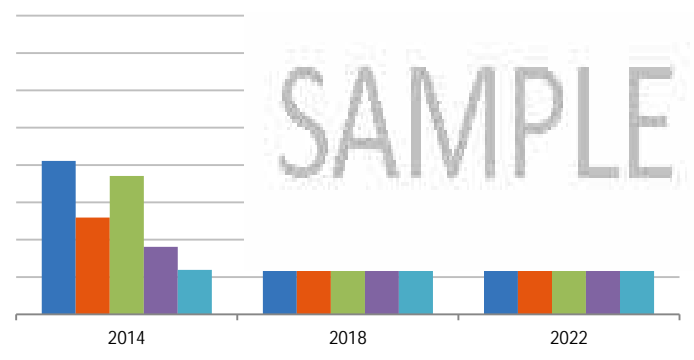
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SAMPLE TABLE/CHART

Glance at 2017 Global Medical Ceramics Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, Latin America and Rest of World



Asia-Pacific Medical Ceramics Market Analysis (2014-2022) by Application – Dental Implants, Implantable Electronic Devices, Orthopedic Implants, Surgical & Diagnostic Instruments and Other Applications in USD Million



KEY PLAYERS PROFILED

- Advanced Industrial Ceramics
- Berkeley Advanced Biomaterials, Inc.
- Coorstek Medical LLC
- Coorstek, Inc.
- Depuy Synthes, Inc.
- Ferro-Ceramic Grinding, Inc.
- International Ceramic Engineering
- Kuraray Co., Ltd.
- Kyocera Corporation
- Lucideon Limited
- Micro Ceramics Limited
- Morgan Advanced Materials PLC
- Murata Manufacturing Company, Ltd.
- Noritake Co., Limited
- Precision Ferrites & Ceramics
- Refractron Technologies Corporation
- Saint-Gobain Ceramics & Plastics, Inc.
- Stryker Corporation
- Superior Technical Ceramics Corporation
- T.Q. Abrasive Machining Company
- TRS Technologies, Inc.
- Zimmer Biomet Holdings, Inc.

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