

Worldwide Medical Ceramics Markets 2016-2025

<https://marketpublishers.com/r/WCF4ADF0D3BEN.html>

Date: March 2016

Pages: 0

Price: US\$ 3,995.00 (Single User License)

ID: WCF4ADF0D3BEN

Abstracts

This report analyzes the market for medical ceramics, a business that n-tech believes will major opportunity for both materials firms and medical device manufacturers in the coming decade. It examines the latest products, with a special focus on product releases in the past year, as well as the recent technical developments in the medical ceramics space. It also discusses the hurdles that medical ceramic products must overcome to achieve market acceptance, including the demands made by regulatory regimes in leading national and regional markets.

Medical ceramics is already established for orthopedic and dental implants; areas in which they provide patients with metals-free solutions. This report shows how the revenue generation for medical ceramics can be extended to newer areas such as the healing of long segmental bone defects and to scaffold-guided bone replacements.

This report also provides n-tech's assessments of the strategies of leading firms active in medical and dental ceramics space. In addition, the report contains granular ten-year forecasts of medical/dental ceramic shipments in volume and value terms, with breakouts by application, type of material and geographical region.

Materials covered include alumina, zirconia, silicon ceramics, hydroxyapatite, bioglass, piezoceramics, nanoceramics, and other materials. Applications discussed in this report include, hip and knee implants; crowns, bridges and other dental implants; surgical and diagnostic tools, implantable electronic implants, and regenerative medicine. Ceramics are an ideal material in these applications because of their wear resistance, inherent stability and excellent electrical properties.

Major firms that are discussed in the report include: 3M, Advanced BioHealing, Amedica, Bioengineering Laboratories, Bonesupport, CeramTec, CoorsTek Medical, Cytophil, Danaher, Dentsply-Sirona, DiscGenics, RegenScientific, DePuy Synthes,

Heraeus Johnson & Johnson, Kinetic Concepts, MicroPort Orthopedics, Morgan Technical Ceramics, Straumann, Stryker and Zimmer Biomet

Contents

EXECUTIVE SUMMARY

- E.1 Opportunities in the Medical Device and Implant Segment
 - E.1.1 Opportunities for Ceramics in the Prostheses and Bone Replacement Markets
 - E.1.2 New Production Methods Improve the Scope of Medical Ceramic Applications: An Emerging Role for Additive Manufacturing
 - E.1.3 Strong Potential Continues for Bioactive Ceramic Coatings and Related Composites
 - E.1.4 Development of Piezoceramics and Nanoceramics in medical applications
- E.2 Opportunities for the Healthcare Segment
 - E.2.1 Ceramics in Orthopedics and Dentistry as an Opportunity
 - E.2.2 Bone Regeneration Market and Scaffold-Guided Tissue Engineering: Latest Developmentd
 - E.2.3 Injectable Ceramics Expanding the Regenerative Market for Medical Ceramics
 - E.2.4 Device Makers Need to Prepare for Move to Increased Outpatient Procedures
- E.3 Opportunities for Materials Firms
 - E.3.1 Cost-effective Large-Scale Production of High Quality Materials Is the Key to Success
 - E.3.2 Others Factors Affecting Medical Ceramic Manufacturers
- E.4 Some Firms to Watch in Medical Ceramics
 - E.4.1 Orthopedic Implant Manufacturers
 - E.4.2 Dental Implant Manufacturers
 - E.4.3 Medical Ceramic Materials Manufacturers and Injectable Ceramic Solution Providers
- E.5 Summary of Ten-Year Forecasts of Medical Ceramics

CHAPTER ONE: INTRODUCTION

- 1.1 Background to this Report
 - 1.1.1 Medical Ceramics: Two Key Markets
 - 1.1.2 Bioceramics: Tooth and Bone Replacements Dominate Market
 - 1.1.3 Wide Use of Ceramics In Biomedical Equipment
 - 1.1.4 Opportunities for Implantable Bioceramics
 - 1.1.5 Nanoceramic Composites: Promising but Risky
- 1.2 Objectives and Scope of This Report
- 1.3 Information Sources and Methodology for This Report
- 1.4 Plan of This Report

CHAPTER TWO: MEDICAL CERAMICS: CURRENT USE AND MAJOR TECHNOLOGY TRENDS

2.1 Ceramic Composites as Dental and Orthopedic Implants: Key Medical-Related Trends

2.1.1 Ceramic Compositions

2.1.2 New Production Methods for Orthopedic and Dental Implants Using Ceramics

2.1.3 Ceramic Injection Molding Produces Small, High-Precision and Intricate Implants

2.1.4 Calcium Phosphate Coatings

2.1.5 Hydroxyapatite (HA) Coatings

2.1.6 Glass Ceramic Coatings

2.1.7 Diamond-Like Carbon Coatings

2.2 Alumina- and Zirconia-based Medical Ceramics

2.3 Predominantly Glass and Partially Filled Glass Ceramics

2.4 Future Markets for Piezoceramics and Sensors

2.4.1 Medical Imaging

2.5 Current and Future Applications of Medical Nanoceramics

2.5.1 Companies and Products

2.6 Key Points Made in this Chapter

CHAPTER THREE: APPLICATION AND MARKETS FOR MEDICAL CERAMICS

3.1 Major Factors Impacting the Medical Ceramics Market

3.1.1 The Impact of Clinical Trials

3.1.2 Environmental Regulations and Standards: ISO 13485

3.1.3 Intellectual Property Issues

3.1.4 Research and Development

3.2 Medical Ceramics in Orthopedics

3.2.1 Total Hip and Joint Replacements

3.2.2 Artificial Joints and Bioglass Implants

3.2.3 Scaffold-Guided Tissue Engineering

3.2.4 Other Orthopedic Applications

3.2.5 Pricing and Forecast Assumptions

3.2.6 Ten-Year Forecast of Medical Ceramics in Orthopedics, by Material and Medical Procedure

3.2.7 Notable Companies and Other Organizations Influencing the Use of Ceramics in Orthopedics

3.3 Medical Ceramics for Dentistry

- 3.3.1 Main Applications for Medical Ceramics in Dentistry
- 3.3.2 Ten-Year Forecast of Medical Ceramics in Dentistry by Material and Dental Procedure
- 3.3.3 Notable Companies and Other Organizations Influencing the Use of Ceramics in Dentistry
- 3.4 Medical Ceramics in Medical Equipment
 - 3.4.1 Ceramics for Surgical Equipment
 - 3.4.2 Diagnostic Equipment: Piezoceramics
 - 3.4.3 Ceramics in Implantable Electronic Devices
 - 3.4.4 Ten-Year Forecast of Medical Equipment by Material and Equipment Type
 - 3.4.5 Notable Companies and Other Organizations Influencing the Use of Ceramics in Medical Equipment
- 3.5 Injectable Ceramics and Ceramic Composites for In-Vivo Regeneration of Hard and Soft Tissues
 - 3.5.1 Ten-Year Forecast of Medical Ceramics in Regeneration Procedures
 - 3.5.2 Notable Companies and Other Organizations Influencing the Use of Ceramics in Regeneration Procedures

CHAPTER FOUR: SUMMARY OF FORECASTS AND GEOGRAPHICAL ANALYSIS

- 4.1 Summary of Ten-Year Market Forecasts
 - 4.1.1 Summary Forecast by Procedure
 - 4.1.2 Summary Forecast by Type of Equipment/Implant
 - 4.1.3 Summary Forecast by Type of Medical Ceramic Material
- 4.2 Market for Medical Ceramics in the U.S.
 - 4.2.1 Regulatory Environment
 - 4.2.2 Trends and Opportunities
 - 4.2.3 Ten-Year Forecast of the U.S. Medical Ceramic Market
- 4.3 Market for Medical Ceramics in Europe
 - 4.3.1 Regulatory Environment
 - 4.3.2 Trends and Opportunities
 - 4.3.3 Ten-Year Forecast of the European Market for Medical Ceramics
- 4.4 Market for Medical Ceramics in Japan
 - 4.4.1 Regulatory Environment
 - 4.4.2 Trends and Opportunities
 - 4.4.3 Ten-Year Forecasts of Markets for Medical Ceramics in Japan
- 4.5 Market for Medical Ceramics in China
 - 4.5.1 Regulatory Environment
 - 4.5.2 Trends and Opportunities

- 4.5.3 Ten-Year Forecast of the Medical Ceramic Market in China
- 4.6 Other Notable National and Regional Markets for Medical Ceramics
 - 4.6.1 Canada
 - 4.6.2 Australia
 - 4.6.3 Ten-Year Forecast of the Medical Ceramic Market in Other Parts of the World

ACRONYMS AND ABBREVIATIONS USED IN THIS REPORT

LIST OF FORECASTS

- Ten-Year Forecast of the Medical Ceramics Market (Global)
- Ten-Year Forecast of Ceramics in Conventional Hip Implants, by Ceramic and Implant Type
- Ten-Year Forecast of Ceramics in Conventional Knee Implants, by Ceramic and Implant Type
- Ten-Year Forecast of Ceramics in Crowns and Bridges, by Material and Equipment Type
- Ten-Year Forecast of Ceramics in Dental Implants, by Material
- Ten-Year Forecast of Ceramics in Surgical Equipment, by Equipment Type
- Ten-Year Forecast of Piezoceramics in Diagnostic Equipment, by Equipment Type
- Ten-Year Forecast of Ceramics in Implantable Electronic Devices, by Equipment Type
- Ten-Year Forecast of Ceramics in Regenerative Applications
- Ten-Year Revenue Forecast for Medical Ceramics by Procedure (Global)
- Ten-Year Revenue Forecast for Medical Ceramics by Equipment/Implant Type
- Ten-Year Forecast for Medical Ceramics in the US
- Ten-Year Forecast for Medical Ceramics in Europe
- Ten-Year Forecast for Medical Ceramics in Japan
- Ten-Year Forecast for Medical Ceramics in China
- Ten-Year Forecast of the Medical Ceramics Market in the Rest of the World
- Ten-Year Medical Ceramics Summary Revenue Forecast by Country/Region
- Ten-Year Revenue Forecast for Medical Ceramics by Material Type (Global)
- Ten-Year Volume Forecast for Medical Ceramics by Material Type (Global)

I would like to order

Product name: Worldwide Medical Ceramics Markets 2016-2025

Product link: <https://marketpublishers.com/r/WCF4ADF0D3BEN.html>

Price: US\$ 3,995.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/WCF4ADF0D3BEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970