

**Medical Ceramics Market by Material (Bioinert (Zirconia, Aluminium), Bioactive (Glass, Hydroxyapatite), Bioresorbable Ceramics), Application (Dental Application, Orthopedic Application, Plastic Surgery, Surgical Instruments) - Global Forecast to 2027**

Market Report | 2022-08-30 | 185 pages | MarketsandMarkets

**AVAILABLE LICENSES:**

- Single User \$4950.00
- Multi User \$6650.00
- Corporate License \$8150.00
- Enterprise Site License \$10000.00

**Report description:**

The global medical ceramics market is valued at an estimated USD 2.6 billion by 2022 is projected to reached USD 3.6 billion by 2027, at a CAGR of 6.6% during forecast period. The growing demand for medical ceramics in plastic surgeries & wound healing applications; the rising number of hip & knee replacement procedures; and the increasing demand for implantable devices are the major factors hampering the growth of this market.

"The zirconia segment accounted for the highest growth rate in the medical ceramics market, by type, during the forecast period" Based on type, the global bioinert ceramics market is segmented into zirconia, alumina, and other bioinert ceramics (titanium, pyrolytic carbon, and silicon nitride). In 2021, the zirconia segment accounted for the largest share of the global bioinert ceramics market. This segment is also expected to grow at the highest rate during the forecast period. The largest share of this segment can be attributed to advantages of zirconia over other ceramic materials, the rising demand for aesthetically attractive dental restorations will drive the market growth.

"Dental application segment accounted for the highest CAGR"

On the basis of application, the global medical ceramics market is segmented into - dental applications, orthopedic applications, surgical instruments, and plastic surgery. In 2021, the dental applications segment accounted for the largest share of the medical ceramics market. Factors supporting the growth increasing number of cosmetic dental procedures and dental implant procedures

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

across various regions and rising periodontal disorders.

"The Asia-Pacific market is expected to grow at the highest CAGR during the forecast period."

The medical ceramics market is segmented into - North America, Europe, the Asia Pacific, Latin America, and Middle East and Africa. The medical ceramics market in several Asia-Pacific countries is expected to witness high growth during the forecast period owing to the aging population, rapid economic growth in emerging APAC countries and rising volume of knee & hip replacement procedures.

A breakdown of the primary participants referred to for this report is provided below:

- By Company Type: Tier 1-45%, Tier 2-34%, and Tier 3- 21%
- By Designation: C-level-47%, Director-level-33%, and Others-20%
- By Region: North America-35%, Europe-32%, Asia Pacific-25%, Latin America-6%, and the Middle East & Africa-2%

Lists of Companies Profiled in the Report:

- CeramTec GmbH (Germany)
- KYOCERA Corporation (Japan)
- Morgan Advanced Materials (UK)
- Nobel Biocare Services (Switzerland)
- Tosoh Corporation (Japan)
- Institut Straumann (Switzerland)
- 3M (US)
- Royal DSM (DSM) (Netherlands)
- Elan Technology (US)
- Bakony Technical Ceramic Ltd. (Hungary)
- Superior Technical Ceramics (US)
- QSIL Ceramics GmbH (Germany)
- NGK Spark Plug (Japan)
- CoorsTek, Inc. (US)
- Advanced Ceramic Materials (US)
- Berkeley Advanced Biomaterials (US)
- Kuraray Noritake Dental (Japan)
- Ferro Corporation (Japan)
- H.C. Stark GmbH (Germany)
- Berkeley Advanced Biomaterials (US).

#### Research Coverage

This report studies the medical ceramics market based on the type of material, application, and region. The report also studies factors (such as drivers, restraints, opportunities, and challenges) affecting market growth. It analyzes the opportunities and challenges in the market and provides details of the competitive landscape for market leaders. Furthermore, the report analyzes micromarkets with respect to their individual growth trends and forecasts the revenue of the market segments with respect to five main regions (and the respective countries in these regions).

#### Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall medical ceramics market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints,

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

opportunities and challenges.

## Table of Contents:

1	INTRODUCTION	28
1.1	STUDY OBJECTIVES	28
1.2	MARKET DEFINITION	28
TABLE 1	INCLUSIONS & EXCLUSIONS	28
1.3	MARKET SCOPE	29
1.3.1	MARKETS COVERED	29
1.3.2	YEARS CONSIDERED	30
1.4	CURRENCY CONSIDERED	30
1.5	STAKEHOLDERS	30
1.6	SUMMARY OF CHANGES	31
2	RESEARCH METHODOLOGY	32
2.1	RESEARCH DATA	32
FIGURE 1	RESEARCH DESIGN	32
2.1.1	SECONDARY DATA	33
2.1.1.1	Secondary sources	34
2.1.2	PRIMARY DATA	35
FIGURE 2	PRIMARY SOURCES	35
2.1.2.1	Key data from primary sources	36
2.1.2.2	Key industry insights	36
FIGURE 3	BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION, AND REGION	37
2.2	MARKET SIZE ESTIMATION	37
FIGURE 4	APPLICATION-BASED MARKET ESTIMATION	39
FIGURE 5	CAGR PROJECTIONS: SUPPLY-SIDE ANALYSIS	40
FIGURE 6	TOP-DOWN APPROACH	40
2.3	MARKET BREAKDOWN AND DATA TRIANGULATION	41
FIGURE 7	DATA TRIANGULATION METHODOLOGY	41
2.4	MARKET SHARE ANALYSIS	42
2.5	ASSUMPTIONS	42
2.6	RISK ASSESSMENT/FACTOR ANALYSIS	42
TABLE 2	RISK ASSESSMENT/FACTOR ANALYSIS	42
3	EXECUTIVE SUMMARY	43
FIGURE 8	MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2022 VS. 2027 (USD MILLION)	43
FIGURE 9	ZIRCONIA, BY TYPE, IS EXPECTED TO COMMAND LARGEST MARKET SHARE FROM 2022 TO 2027	44
FIGURE 10	HYDROXYAPATITE SEGMENT TO COMMAND LARGEST MARKET SHARE FROM 2022 TO 2027	44
FIGURE 11	DENTAL APPLICATIONS SEGMENT TO DOMINATE MEDICAL CERAMICS MARKET DURING FORECAST PERIOD	45
FIGURE 12	ASIA PACIFIC MARKET TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD	46
4	PREMIUM INSIGHTS	47
4.1	MEDICAL CERAMICS MARKET OVERVIEW	47
FIGURE 13	RIISING NUMBER OF HIP & KNEE REPLACEMENT SURGERIES AND GROWING AWARENESS OF DENTAL CARE DRIVE MARKET GROWTH	47
4.2	GEOGRAPHIC ANALYSIS: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE AND REGION	48
FIGURE 14	BIOINERT CERAMICS SEGMENT DOMINATED MARKET IN NORTH AMERICA IN 2021	48
4.3	GEOGRAPHICAL SNAPSHOT OF MEDICAL CERAMICS MARKET	49
FIGURE 15	CHINA REGISTERS HIGHEST CAGR DURING FORECAST PERIOD	49

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

## 5 MARKET OVERVIEW 50

### 5.1 INTRODUCTION 50

### 5.2 MARKET DYNAMICS 50

#### FIGURE 16 MEDICAL CERAMICS MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES 50

#### 5.2.1 DRIVERS 51

##### 5.2.1.1 Growing demand for implantable devices 51

##### TABLE 3 INCREASING GERIATRIC POPULATION, BY REGION, 2022 VS. 2050 51

##### 5.2.1.2 Increasing demand for medical ceramics in plastic surgeries and wound healing applications 52

##### 5.2.1.3 Rising number of hip & knee replacement procedures 52

#### FIGURE 17 TOTAL NUMBER OF REPLACEMENT PROCEDURES PERFORMED IN THE US FROM 2012 TO 2019 53

#### 5.2.2 RESTRAINTS 53

##### 5.2.2.1 Stringent clinical & regulatory processes 53

#### 5.2.3 OPPORTUNITIES 53

##### 5.2.3.1 Growing healthcare industry in emerging economies 53

##### 5.2.3.2 3D printed ceramics 54

##### 5.2.3.3 Gradual shift toward new materials & products 54

##### 5.2.3.4 Growing research activities for nanotechnology applications 55

#### 5.2.4 CHALLENGES 55

##### 5.2.4.1 Issues related to reparability & recycling 55

##### 5.2.4.2 Shortage of skilled surgeons and dental professionals 55

### 5.3 REGULATORY ANALYSIS 56

#### 5.3.1 NORTH AMERICA 56

##### 5.3.1.1 US 56

##### 5.3.1.1.1 FDA device classification 56

#### FIGURE 18 US: REGULATORY APPROVAL PROCESS 58

#### TABLE 4 US: MEDICAL DEVICE REGULATORY APPROVAL PROCESS 59

##### 5.3.1.2 Canada 59

#### TABLE 5 CANADA: MEDICAL DEVICE REGULATORY APPROVAL PROCESS 59

#### FIGURE 19 CANADA: REGULATORY APPROVAL PROCESS FOR MEDICAL DEVICES 60

#### 5.3.2 EUROPE 60

##### 5.3.2.1 European regulatory process 61

#### FIGURE 20 EUROPE: REGULATORY APPROVAL PROCESS FOR MEDICAL DEVICES (MDR) 62

#### 5.3.3 ASIA PACIFIC 63

##### 5.3.3.1 Japan 63

#### TABLE 6 JAPAN: MEDICAL DEVICE CLASSIFICATION UNDER PMDA 63

##### 5.3.3.2 China 64

#### TABLE 7 CHINA: CLASSIFICATION OF MEDICAL DEVICES 64

##### 5.3.3.3 India 65

### 5.4 ECOSYSTEM COVERAGE 66

### 5.5 VALUE CHAIN ANALYSIS 66

#### FIGURE 21 MEDICAL CERAMICS MARKET: VALUE CHAIN ANALYSIS 67

## 6 MEDICAL CERAMICS MARKET, BY MATERIAL TYPE 68

### 6.1 INTRODUCTION 69

#### TABLE 8 MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION) 69

### 6.2 BIOINERT CERAMICS 70

#### TABLE 9 MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 70

#### TABLE 10 MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY REGION, 2020-2027 (USD MILLION) 70

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

## 6.2.1 ZIRCONIA 70

### 6.2.1.1 High resistance to corrosion to drive market growth 70

TABLE 11 MEDICAL CERAMICS MARKET FOR ZIRCONIA, BY REGION, 2020-2027 (USD MILLION) 72

## 6.2.2 ALUMINUM OXIDE 72

### 6.2.2.1 Increasing use of aluminum oxide in hip replacements and dental implants to drive market growth 72

TABLE 12 MEDICAL CERAMICS MARKET FOR ALUMINUM OXIDE, BY REGION, 2020-2027 (USD MILLION) 72

## 6.2.3 OTHER BIOINERT CERAMICS 73

TABLE 13 OTHER BIOINERT CERAMICS MARKET, BY REGION, 2020-2027 (USD MILLION) 73

## 6.3 BIOACTIVE CERAMICS 73

TABLE 14 MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 74

TABLE 15 MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY REGION, 2020-2027 (USD MILLION) 74

### 6.3.1 HYDROXYAPATITE 74

#### 6.3.1.1 Increasing R&D activities to support adoption of hydroxyapatite applications in medical care 74

TABLE 16 MEDICAL CERAMICS MARKET FOR HYDROXYAPATITE, BY REGION, 2020-2027 (USD MILLION) 75

### 6.3.2 GLASS CERAMICS 75

#### 6.3.2.1 Rising number of orthopedic & dental procedures to drive demand for glass ceramics 75

TABLE 17 MEDICAL CERAMICS MARKET FOR GLASS CERAMICS, BY REGION, 2020-2027 (USD MILLION) 76

## 6.4 BIORESORBABLE CERAMICS 76

### 6.4.1 INCREASING R&D ACTIVITIES IN FUNCTIONAL REGENERATION OF TISSUES TO DRIVE SEGMENT GROWTH 76

TABLE 18 MEDICAL CERAMICS MARKET FOR BIORESORBABLE CERAMICS, BY REGION, 2020-2027 (USD MILLION) 77

## 7 MEDICAL CERAMICS MARKET, BY APPLICATION 78

### 7.1 INTRODUCTION 79

TABLE 19 MEDICAL CERAMICS MARKET, BY APPLICATION, 2020-2027 (USD MILLION) 79

### 7.2 DENTAL APPLICATIONS 79

TABLE 20 MEDICAL CERAMICS MARKET FOR DENTAL APPLICATIONS, BY REGION, 2020-2027 (USD MILLION) 80

#### 7.2.1 DENTAL IMPLANTS 80

##### 7.2.1.1 Increasing cases of dental caries to drive market growth 80

TABLE 21 MEDICAL CERAMICS MARKET FOR DENTAL IMPLANTS, BY REGION, 2020-2027 (USD MILLION) 81

#### 7.2.2 DENTAL CROWNS & BRIDGES 81

##### 7.2.2.1 Long lasting properties of dental crowns- key factor expected to support market growth 81

TABLE 22 MEDICAL CERAMICS MARKET FOR DENTAL CROWNS & BRIDGES, BY REGION, 2020-2027 (USD MILLION) 82

#### 7.2.3 BRACES 82

##### 7.2.3.1 Increasing demand for invisible ceramic braces due to esthetic concerns to drive market growth 82

TABLE 23 MEDICAL CERAMICS MARKET FOR BRACES, BY REGION, 2020-2027 (USD MILLION) 82

#### 7.2.4 INLAYS & ONLAYS 83

##### 7.2.4.1 Usage of CAD-CAM fabricated inlays & onlays to support market growth 83

TABLE 24 MEDICAL CERAMICS MARKET FOR INLAYS AND ONLAYS, BY REGION, 2020-2027 (USD MILLION) 83

#### 7.2.5 DENTAL BONE GRAFTS & SUBSTITUTES 83

##### 7.2.5.1 Increasing use of bone grafts in dental implant procedures is expected to drive market growth 83

TABLE 25 MEDICAL CERAMICS MARKET FOR DENTAL BONE GRAFTS & SUBSTITUTES, BY REGION, 2020-2027 (USD MILLION) 84

## 7.3 ORTHOPEDIC APPLICATIONS 84

TABLE 26 MEDICAL CERAMICS MARKET FOR ORTHOPEDIC APPLICATIONS, BY REGION, 2020-2027 (USD MILLION) 85

### 7.3.1 JOINT REPLACEMENT SURGERIES 85

#### 7.3.1.1 Rising volume of joint replacement procedures to drive market growth 85

TABLE 27 MEDICAL CERAMICS MARKET FOR JOINT REPLACEMENT SURGERIES, BY REGION, 2020-2027 (USD MILLION) 86

#### 7.3.1.2 Knee replacement 86

##### 7.3.1.2.1 Growing number of knee replacement procedures to drive market growth 86

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

FIGURE 22 KNEE REPLACEMENT SURGERIES, 2015-2019 (PER 100,000) 86

7.3.1.3 Hip replacement 87

7.3.1.3.1 Use of ceramic materials in hip implants to drive market growth 87

FIGURE 23 HIP REPLACEMENT SURGERIES, 2015-2019 (PER 100,000) 87

7.3.1.4 Shoulder replacement surgery 87

7.3.1.4.1 Increasing incidence of shoulder injuries to drive market growth 87

7.3.1.5 Other joint replacement applications 88

7.3.2 FRACTURE FIXATION 88

7.3.2.1 Increasing demand for medical ceramics in constructing fracture fixation devices to support market growth 88

TABLE 28 MEDICAL CERAMICS MARKET FOR FRACTURE FIXATION, BY REGION, 2020-2027 (USD MILLION) 89

7.3.3 SYNTHETIC BONE GRAFTS 89

7.3.3.1 Advantages of synthetic bone grafts over autografts & allografts to drive market growth 89

TABLE 29 MEDICAL CERAMICS MARKET FOR SYNTHETIC BONE GRAFTS, BY REGION, 2020-2027 (USD MILLION) 90

7.4 CARDIOVASCULAR IMPLANTS 90

7.4.1 RISING ADOPTION OF HYDROXYAPATITE FOR COATING OF CARDIOVASCULAR IMPLANTS TO DRIVE MARKET GROWTH 90

TABLE 30 MEDICAL CERAMICS MARKET FOR CARDIOVASCULAR APPLICATIONS, BY REGION, 2020-2027 (USD MILLION) 91

7.5 SURGICAL INSTRUMENTS 91

7.5.1 INCREASING NUMBER OF SURGICAL PROCEDURES WORLDWIDE TO DRIVE MARKET GROWTH 91

TABLE 31 MEDICAL CERAMICS MARKET FOR SURGICAL INSTRUMENTS, BY REGION, 2020-2027 (USD MILLION) 92

7.6 DIAGNOSTIC INSTRUMENTS 92

7.6.1 GROWING AWARENESS AMONG PATIENTS ON EARLY DISEASE DIAGNOSIS TO SUPPORT MARKET GROWTH 92

TABLE 32 MEDICAL CERAMICS MARKET FOR DIAGNOSTIC INSTRUMENTS, BY REGION, 2020-2027 (USD MILLION) 94

7.7 PLASTIC SURGERY 94

TABLE 33 MEDICAL CERAMICS MARKET FOR PLASTIC SURGERY, BY REGION, 2020-2027 (USD MILLION) 95

7.7.1 CRANIOMAXILLOFACIAL IMPLANTS 95

7.7.1.1 Utilization of hydroxyapatite in craniomaxillofacial surgery for restorative purposes to support market growth 95

TABLE 34 MEDICAL CERAMICS MARKET FOR CRANIOMAXILLOFACIAL IMPLANTS, BY REGION, 2020-2027 (USD MILLION) 95

7.7.2 ORBITAL/OCULAR IMPLANTS 96

7.7.2.1 Increasing prevalence of eye diseases to drive market growth 96

TABLE 35 MEDICAL CERAMICS MARKET FOR ORBITAL/OCULAR IMPLANTS, BY REGION, 2020-2027 (USD MILLION) 96

7.7.3 DERMAL FILLERS 96

7.7.3.1 Usage of calcium hydroxyapatite in dermal fillers to support market growth 96

TABLE 36 MEDICAL CERAMICS MARKET FOR DERMAL FILLERS, BY REGION, 2020-2027 (USD MILLION) 97

7.8 OTHER APPLICATIONS 97

TABLE 37 MEDICAL CERAMICS MARKET FOR OTHER APPLICATIONS, BY REGION, 2020-2027 (USD MILLION) 98

8 GLOBAL MEDICAL CERAMICS MARKET, BY REGION 99

8.1 INTRODUCTION 100

TABLE 38 MEDICAL CERAMICS MARKET, BY REGION, 2020-2027 (USD MILLION) 100

8.2 NORTH AMERICA 100

FIGURE 24 NORTH AMERICA: MEDICAL CERAMICS MARKET SNAPSHOT 101

TABLE 39 NORTH AMERICA: MEDICAL CERAMICS MARKET, BY COUNTRY, 2020-2027 (USD MILLION) 101

TABLE 40 NORTH AMERICA: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION) 102

TABLE 41 NORTH AMERICA: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 102

TABLE 42 NORTH AMERICA: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 102

TABLE 43 NORTH AMERICA: MEDICAL CERAMICS MARKET, BY APPLICATION, 2020-2027 (USD MILLION) 103

TABLE 44 NORTH AMERICA: MEDICAL CERAMICS MARKET FOR DENTAL APPLICATIONS, BY TYPE, 2020-2027 (USD MILLION) 103

TABLE 45 NORTH AMERICA: MEDICAL CERAMICS MARKET FOR ORTHOPEDIC APPLICATIONS, BY TYPE, 2020-2027 (USD

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

MILLION)103

TABLE 461NORTH AMERICA: MEDICAL CERAMICS MARKET FOR PLASTIC SURGERY, BY TYPE, 2020-2027(USD MILLION)104

8.2.11US104

8.2.1.11Increasing elderly population & rising need for dental procedures to drive market growth104

FIGURE 251AGING POPULATION IN THE US, 2014-2060104

TABLE 471US: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION)105

TABLE 481US: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION)105

TABLE 491US: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION)105

8.2.21CANADA106

8.2.2.11Rising geriatric population to drive market growth for medical ceramics106

TABLE 501CANADA: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION)106

TABLE 511CANADA: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION)107

TABLE 521CANADA: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION)107

8.31EUROPE107

TABLE 531CONFERENCES AND SYMPOSIUMS ON MEDICAL CERAMICS IN EUROPE (2018-2020)108

TABLE 541EUROPE: MEDICAL CERAMICS MARKET, BY COUNTRY, 2020-2027 (USD MILLION)108

TABLE 551EUROPE: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION)109

TABLE 561EUROPE: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION)109

TABLE 571EUROPE: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION)109

TABLE 581EUROPE: MEDICAL CERAMICS MARKET, BY APPLICATION, 2020-2027 (USD MILLION)110

TABLE 591EUROPE: MEDICAL CERAMICS MARKET FOR DENTAL APPLICATIONS, BY TYPE, 2020-2027 (USD MILLION)110

TABLE 601EUROPE: MEDICAL CERAMICS MARKET FOR ORTHOPEDIC APPLICATIONS, BY TYPE, 2020-2027 (USD MILLION)110

TABLE 611EUROPE: MEDICAL CERAMICS MARKET FOR PLASTIC SURGERY, BY TYPE, 2020-2027 (USD MILLION)111

8.3.11GERMANY111

8.3.1.11Rising geriatric population and medical tourism to support market growth for medical ceramics111

FIGURE 261GERMANY: AGING POPULATION AGED 65 AND ABOVE, 2015-2021 (MILLION)111

FIGURE 271GERMANY: HIP REPLACEMENT SURGERIES, 2015-2019 (PER 100,000 POPULATION)112

TABLE 621GERMANY: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION)112

TABLE 631GERMANY: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION)112

TABLE 641GERMANY: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION)113

8.3.21FRANCE113

8.3.2.11Growing awareness of dental care & rising surgical procedures to support market growth113

FIGURE 281FRANCE: KNEE REPLACEMENT SURGERIES, 2015-2019 (PER 100,000 POPULATION)113

TABLE 651FRANCE: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION)114

TABLE 661FRANCE: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION)114

TABLE 671FRANCE: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION)115

8.3.31UK115

8.3.3.11Growing orthopedic & dental industry?key factor expected to drive adoption of medical ceramic products115

TABLE 681UK: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION)116

TABLE 691UK: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION)116

TABLE 701UK: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION)116

8.3.41ITALY117

8.3.4.11Growing demand for medical ceramics in plastic surgeries to support market growth117

TABLE 711ITALY: NUMBER OF KNEE AND HIP REPLACEMENT SURGERIES, 2015-2020 (PER 100,000)117

TABLE 721ITALY: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION)117

TABLE 731ITALY: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION)118

TABLE 741ITALY: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION)118

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

### 8.3.5 SPAIN 118

#### 8.3.5.1 Growing demand for cosmetic dentistry to support uptake of medical ceramics 118

TABLE 75 SPAIN: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION) 119

TABLE 76 SPAIN: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 119

TABLE 77 SPAIN: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 119

### 8.3.6 REST OF EUROPE 120

TABLE 78 REST OF EUROPE: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION) 120

TABLE 79 REST OF EUROPE: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 121

TABLE 80 REST OF EUROPE: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 121

### 8.4 ASIA PACIFIC 121

FIGURE 29 ASIA PACIFIC: MEDICAL CERAMICS MARKET SNAPSHOT (2021) 122

TABLE 81 ASIA PACIFIC: MEDICAL CERAMICS MARKET, BY COUNTRY, 2020-2027 (USD MILLION) 123

TABLE 82 ASIA PACIFIC: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION) 123

TABLE 83 ASIA PACIFIC: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 123

TABLE 84 ASIA PACIFIC: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 124

TABLE 85 ASIA PACIFIC: MEDICAL CERAMICS MARKET, BY APPLICATION, 2020-2027 (USD MILLION) 124

TABLE 86 ASIA PACIFIC: MEDICAL CERAMICS MARKET FOR DENTAL APPLICATIONS, BY TYPE, 2020-2027 (USD MILLION) 124

TABLE 87 ASIA PACIFIC: MEDICAL CERAMICS MARKET FOR ORTHOPEDIC APPLICATIONS, BY TYPE, 2020-2027 (USD MILLION) 125

TABLE 88 ASIA PACIFIC: MEDICAL CERAMICS MARKET FOR PLASTIC SURGERY, BY TYPE, 2020-2027 (USD MILLION) 125

#### 8.4.1 CHINA 125

8.4.1.1 Increasing awareness of oral healthcare & presence of specialized dental hospitals to drive market growth 125

TABLE 89 CHINA: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION) 126

TABLE 90 CHINA: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 126

TABLE 91 CHINA: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 126

#### 8.4.2 JAPAN 126

8.4.2.1 Rising prevalence of age-related illnesses to drive market uptake of medical ceramics 126

TABLE 92 JAPAN: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE

, 2020-2027 (USD MILLION) 127

TABLE 93 JAPAN: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 127

TABLE 94 JAPAN: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 127

#### 8.4.3 INDIA 127

8.4.3.1 Creation of medical device cluster projects to drive demand for medical ceramics 127

TABLE 95 INDIA: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION) 128

TABLE 96 INDIA: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 128

TABLE 97 INDIA: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 128

#### 8.4.4 AUSTRALIA 129

8.4.4.1 Growing target disease burden to support market growth 129

TABLE 98 AUSTRALIA: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION) 129

TABLE 99 AUSTRALIA: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 129

TABLE 100 AUSTRALIA: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 130

#### 8.4.5 SOUTH KOREA 130

8.4.5.1 Increasing dental care and plastic surgery procedures expected to support market growth 130

TABLE 101 SOUTH KOREA: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION) 130

TABLE 102 SOUTH KOREA: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 131

TABLE 103 SOUTH KOREA: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION) 131

#### 8.4.6 REST OF ASIA PACIFIC 131

TABLE 104 RISING GERIATRIC POPULATION (65 YEARS AND ABOVE), 2015-2021 131

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



TABLE 105	REST OF ASIA PACIFIC: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION)	132
TABLE 106	REST OF ASIA PACIFIC: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION)	132
TABLE 107	REST OF ASIA PACIFIC: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION)	132
8.5	LATIN AMERICA	132
TABLE 108	LATIN AMERICA: MEDICAL CERAMICS MARKET, BY COUNTRY, 2020-2027(USD MILLION)	133
TABLE 109	LATIN AMERICA: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY MATERIAL TYPE, 2020-2027 (USD MILLION)	133
TABLE 110	LATIN AMERICA: BIOINERT CERAMICS MARKET, BY TYPE, 2020-2027 (USD MILLION)	133
TABLE 111	LATIN AMERICA: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027(USD MILLION)	134
TABLE 112	LATIN AMERICA: MEDICAL CERAMICS MARKET, BY APPLICATION, 2020-2027 (USD MILLION)	134
TABLE 113	LATIN AMERICA: MEDICAL CERAMICS MARKET FOR DENTAL APPLICATIONS, BY TYPE, 2020-2027 (USD MILLION)	134
TABLE 114	LATIN AMERICA: MEDICAL CERAMICS MARKET FOR ORTHOPEDIC APPLICATIONS, BY TYPE, 2020-2027(USD MILLION)	135
TABLE 115	LATIN AMERICA: MEDICAL CERAMICS MARKET FOR PLASTIC SURGERY, BY TYPE, 2020-2027 (USD MILLION)	135
8.5.1	BRAZIL	135
8.5.1.1	Key market for medical ceramics owing to modernization of healthcare facilities	135
TABLE 116	BRAZIL: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION)	136
TABLE 117	BRAZIL: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION)	136
TABLE 118	BRAZIL: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION)	136
8.5.2	MEXICO	137
8.5.2.1	Favorable investment scenario for medical device manufacturers to drive market growth	137
TABLE 119	MEXICO: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION)	137
TABLE 120	MEXICO: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION)	138
TABLE 121	MEXICO: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION)	138
8.5.3	REST OF LATIN AMERICA	138
TABLE 122	REST OF LATIN AMERICA: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION)	138
TABLE 123	REST OF LATIN AMERICA: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027 (USD MILLION)	139
TABLE 124	REST OF LATIN AMERICA: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION)	139
8.6	MIDDLE EAST & AFRICA	139
8.6.1	INCREASING AWARENESS OF DENTAL TREATMENT TO DRIVE MARKET GROWTH	139
TABLE 125	MIDDLE EAST & AFRICA: MEDICAL CERAMICS MARKET, BY MATERIAL TYPE, 2020-2027 (USD MILLION)	140
TABLE 126	MIDDLE EAST & AFRICA: MEDICAL CERAMICS MARKET FOR BIOINERT CERAMICS, BY TYPE, 2020-2027(USD MILLION)	140
TABLE 127	MIDDLE EAST & AFRICA: MEDICAL CERAMICS MARKET FOR BIOACTIVE CERAMICS, BY TYPE, 2020-2027 (USD MILLION)	140
TABLE 128	MIDDLE EAST & AFRICA: MEDICAL CERAMICS MARKET, BY APPLICATION, 2020-2027 (USD MILLION)	141
TABLE 129	MIDDLE EAST & AFRICA: MEDICAL CERAMICS MARKET FOR DENTAL APPLICATIONS, BY TYPE, 2020-2027 (USD MILLION)	141
TABLE 130	MIDDLE EAST & AFRICA: MEDICAL CERAMICS MARKET FOR ORTHOPEDIC APPLICATIONS, BY TYPE, 2020-2027 (USD MILLION)	141
TABLE 131	MIDDLE EAST & AFRICA: MEDICAL CERAMICS MARKET FOR PLASTIC SURGERY, BY TYPE, 2020-2027 (USD MILLION)	142
9	COMPETITIVE LANDSCAPE	143
9.1	INTRODUCTION	143
9.2	KEY PLAYER STRATEGIES/RIGHT TO WIN	143
TABLE 132	OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS IN THE MEDICAL CERAMICS MARKET	143
9.3	MARKET SHARE ANALYSIS	144
TABLE 133	MEDICAL CERAMICS MARKET: DEGREE OF COMPETITION	144

9.4	COMPANY EVALUATION MATRIX	145
9.4.1	STARS	146
9.4.2	EMERGING LEADERS	146
9.4.3	PERVASIVE PLAYERS	146
9.4.4	PARTICIPANTS	146
FIGURE 30	MEDICAL CERAMICS MARKET: COMPETITIVE LEADERSHIP MAPPING (2021)	147
9.5	COMPETITIVE SITUATIONS & TRENDS	147
9.5.1	PRODUCT LAUNCHES (2019-2022)	147
9.5.2	EXPANSIONS (2019-2022)	148
9.5.3	PARTNERSHIPS AND COLLABORATIONS (2019-2022)	148
9.5.4	ACQUISITIONS (2019-2022)	148
?		
10	COMPANY PROFILES	149
10.1	KEY PLAYERS	149
	(Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))*	
10.1.1	INSTITUT STRAUMANN AG	149
TABLE 134	INSTITUT STRAUMANN AG: BUSINESS OVERVIEW	149
FIGURE 31	INSTITUT STRAUMANN AG: COMPANY SNAPSHOT (2021)	150
10.1.2	3M	152
TABLE 135	3M: BUSINESS OVERVIEW	152
FIGURE 32	3M: COMPANY SNAPSHOT (2021)	153
10.1.3	ROYAL DSM	155
TABLE 136	ROYAL DSM: BUSINESS OVERVIEW	155
FIGURE 33	ROYAL DSM: COMPANY SNAPSHOT (2021)	156
10.1.4	CERAMTEC	157
TABLE 137	CERAMTEC: BUSINESS OVERVIEW	157
FIGURE 34	CERAMTEC: COMPANY SNAPSHOT (2021)	158
10.1.5	KYOCERA CORPORATION	160
TABLE 138	KYOCERA: BUSINESS OVERVIEW	160
FIGURE 35	KYOCERA CORPORATION: COMPANY SNAPSHOT (2021)	161
10.1.6	COORSTEK INC.	164
TABLE 139	COORSTEK INC.: BUSINESS OVERVIEW	164
10.1.7	MORGAN ADVANCED MATERIALS PLC	166
TABLE 140	MORGAN ADVANCED MATERIALS PLC.: BUSINESS OVERVIEW	166
FIGURE 36	MORGAN ADVANCED MATERIALS PLC: COMPANY SNAPSHOT (2021)	167
10.1.8	NGK SPARK PLUG CO., LTD.	169
TABLE 141	NGK SPARK PLUG CO. LTD: BUSINESS OVERVIEW	169
FIGURE 37	NGK SPARK PLUG CO., LTD: COMPANY SNAPSHOT (2021)	170
10.1.9	TOSOH CORPORATION	171
TABLE 142	TOSOH CORPORATION: BUSINESS OVERVIEW	171
FIGURE 38	TOSOH CORPORATION: COMPANY SNAPSHOT (2021)	172
10.1.10	SUPERIOR TECHNICAL CERAMICS	174
TABLE 143	SUPERIOR TECHNICAL CERAMICS: BUSINESS OVERVIEW	174
10.1.11	RAUSCHERT GMBH	175
TABLE 144	RAUSCHERT GMBH: BUSINESS OVERVIEW	175
10.1.12	H.C. STARCK GMBH	176

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

TABLE 145	H.C. STARCK GMBH: BUSINESS OVERVIEW	176
10.1.13	NOBEL BIOCARE SERVICES AG	177
TABLE 146	NOBEL BIOCARE SERVICES AG: BUSINESS OVERVIEW	177
10.1.14	BERKELEY ADVANCED BIOMATERIALS	178
TABLE 147	BERKELEY ADVANCED BIOMATERIALS: BUSINESS OVERVIEW	178
10.1.15	BAKONY TECHNICAL CERAMICS LTD.	180
TABLE 148	BAKONY TECHNICAL CERAMICS LTD: BUSINESS OVERVIEW	180
10.2	OTHER COMPANIES	181
10.2.1	KURARAY NORITAKE DENTAL INC.	181
10.2.2	QSIL CERAMICS GMBH	181
10.2.3	FERRO CORPORATION	182
10.2.4	ELAN TECHNOLOGY	182
10.2.5	NISHIMURA ADVANCED CERAMICS	183
*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.		
11	APPENDIX	184
11.1	DISCUSSION GUIDE	184
11.2	KNOWLEDGESTORE: MARKETSandMARKETS? SUBSCRIPTION PORTAL	188
11.3	CUSTOMIZATION OPTIONS	190
11.4	RELATED REPORTS	190
11.5	AUTHOR DETAILS	191

**Medical Ceramics Market by Material (Bioinert (Zirconia, Aluminium), Bioactive (Glass, Hydroxyapatite), Bioresorbable Ceramics), Application (Dental Application, Orthopedic Application, Plastic Surgery, Surgical Instruments) - Global Forecast to 2027**

Market Report | 2022-08-30 | 185 pages | MarketsandMarkets

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

**ORDER FORM:**

Select license	License	Price
	Single User	\$4950.00
	Multi User	\$6650.00
	Corporate License	\$8150.00
	Enterprise Site License	\$10000.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Zip Code\*

Country\*

Date

Signature