

Technical Ceramics Market by Material (Oxide, Non-oxide), Product (Monolithic Ceramics, Ceramic Matrix Composites, Ceramic Coatings), End-Use Industry (Electronics & Semiconductor, Automotive, Energy & Power, Medical, Others), and by Region - Global Forecast to 2021

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Abstracts

“Increasing demand for technical ceramics in medical end-use industry is a prime factor for the growth of the technical ceramics market”

The global technical ceramics market size (2016–2021) is estimated to reach USD 8.49 billion by 2021 at a CAGR of 6.43%. The demand for technical ceramics is increasing due to its increased usage in the manufacturing of medical devices and implants that are used for bone and tooth replacements. With the growing electronics & semiconductor industry, the increased demand for high temperature stability, low thermal expansion, and robust products drives the market for technical ceramics.

“Electronics & semiconductor: the largest end-use industry of technical ceramics”

Technical ceramics are used in various end-use industries such as electronics & semiconductor, automotive, energy & power, industrial, medical, military & defense, and others. In 2015, the electronics & semiconductor segment accounted for the largest market share among all the applications, in terms of value as well as volume, followed by automotive, energy & power, and industrial industries. Among all the applications, medical end-use industry is estimated to register the highest CAGR between 2016 and 2021, in terms of value as well as volume.

“Rising demand for technical ceramics from the developing markets of Asia-Pacific is the major driver for the technical ceramics market”

In 2015, Asia-Pacific is estimated to account for the largest market share, in terms of value as well as volume, and is estimated to remain the market leader during the forecast period. High industrial growth resulted in an increased demand for technical ceramics in different applications such as in the electronics & semiconductor and medical industries. This growth is further supported by the growing military & defense industry in Asia-Pacific due to the increased governmental investments in the defense sector. China accounted for the largest market share in this region due to the increased demand for military & defense equipment over the last 2–3 years. Other emerging economies, such as India and Brazil, are the markets which are projected to grow rapidly.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews were conducted.

The breakdown of primary interviews is given below.

By Company Type - Tier 1 - 33%, Tier 2 – 60%, and Others - 7%

By Designation - C level - 56%, Director level - 33%, and Others - 11%

By Region - North America - 13%, Europe - 47%, Asia-Pacific - 20%, the Middle East & Africa - 13%, and South America - 7%

The key companies profiled in this market research report are CeramTec GmbH (Germany), Kyocera Corporation (Japan), Morgan Advanced Materials (U.K.), Saint-Gobain Ceramic Materials (U.S.), McDanel Advanced Ceramic Technologies (U.S.), Ceradyne, Inc. (3M Company) (U.S.), Rauschert Steinbach GmbH (Germany), Dyson Technical Ceramics Limited (U.K.), Superior Technical Ceramics (U.S.), NGK Spark Plug Co., Ltd. (Japan), and other local players.

The report will help the market leaders/new entrants in this market in the following ways:

1. This report segments the technical ceramics market comprehensively and provides the closest approximations of the revenue numbers for the overall market and the

subsegments across the different verticals and regions.

2. It will help stakeholders to understand the pulse of the market and provide them information on key market drivers, restraints, challenges, and opportunities.

3. It will help stakeholders to understand the competitors and gain more insights to better their position in the business. The competitive landscape section includes new product developments, partnerships, and mergers & acquisitions.

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 MARKET SCOPE
 - 1.3.1 YEARS CONSIDERED FOR THE STUDY
 - 1.3.2 CURRENCY
 - 1.3.3 PACKAGE SIZE
- 1.4 RESEARCH LIMITATIONS
- 1.5 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Key data from primary sources
 - 2.1.2.2 Breakdown of primary interviews
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 BOTTOM-UP APPROACH
 - 2.2.2 TOP-DOWN APPROACH
- 2.3 DATA TRIANGULATION
- 2.4 RESEARCH ASSUMPTIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 SIGNIFICANT OPPORTUNITIES IN THE GLOBAL TECHNICAL CERAMICS MARKET
- 4.2 TECHNICAL CERAMICS MARKET GROWTH, BY END-USE INDUSTRY, 2016–2021
- 4.3 TECHNICAL CERAMICS MARKET IN ASIA-PACIFIC, BY PRODUCT TYPE AND COUNTRY, 2015
- 4.4 TECHNICAL CERAMICS MARKET SHARE, BY REGION
- 4.5 TECHNICAL CERAMICS MARKET, BY PRODUCT TYPE

4.6 LIFECYCLE ANALYSIS, BY REGION

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET SEGMENTATION

5.3 MARKET DYNAMICS

5.3.1 DRIVERS

5.3.1.1 High demand for technical ceramics due to its superior properties

5.3.1.2 Reduction in production cost in end-use industries by deploying technical ceramics in high temperature applications

5.3.1.3 Growing demand for technical ceramics in the medical end-use industry

5.3.2 RESTRAINTS

5.3.2.1 Higher price than other metals and alloys

5.3.2.2 High customization requirement of end-use industries

5.3.3 OPPORTUNITIES

5.3.3.1 Incorporation of low-cost production technologies

5.3.3.2 Growth of nanotechnology

5.3.4 CHALLENGES

5.3.4.1 Slower adoption of technical ceramics in new and low-cost applications

5.3.4.2 Issues related to recyclability and reparability

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 VALUE CHAIN ANALYSIS

6.3 PORTER'S FIVE FORCES ANALYSIS

6.3.1 THREAT OF NEW ENTRANTS

6.3.2 THREAT OF SUBSTITUTES

6.3.3 BARGAINING POWER OF BUYERS

6.3.4 BARGAINING POWER OF SUPPLIERS

6.3.5 INTENSITY OF COMPETITIVE RIVALRY

6.4 PATENT ANALYSIS

7 MACROECONOMIC OVERVIEW AND KEY DRIVERS

7.1 INTRODUCTION

7.2 TRENDS AND FORECASTS OF GDP

7.3 PER CAPITA GDP VS. PER CAPITA TECHNICAL CERAMICS DEMAND

7.4 TRENDS OF AUTOMOTIVE INDUSTRY

8 TECHNICAL CERAMICS MARKET, BY MATERIAL

8.1 INTRODUCTION

8.2 OXIDE CERAMICS

8.2.1 ALUMINA CERAMICS

8.2.2 TITANATE CERAMICS

8.2.3 ZIRCONIA CERAMICS

8.3 NON-OXIDE CERAMICS

8.3.1 ALUMINA NITRIDE

8.3.2 SILICON NITRIDE

8.3.3 SILICON CARBIDE

9 TECHNICAL CERAMICS MARKET, BY PRODUCT TYPE

9.1 INTRODUCTION

9.1.1 REVENUE POCKET MATRIX, BY PRODUCT TYPE

9.2 MONOLITHIC CERAMICS

9.3 CERAMIC MATRIX COMPOSITES

9.4 CERAMIC COATINGS

9.5 OTHERS

10 TECHNICAL CERAMICS MARKET, BY END-USE INDUSTRY

10.1 INTRODUCTION

10.1.1 REVENUE POCKET MATRIX

10.2 ELECTRONICS & SEMICONDUCTOR

10.3 AUTOMOTIVE

10.4 ENERGY & POWER

10.5 INDUSTRIAL

10.6 MEDICAL

10.7 MILITARY & DEFENSE

10.8 OTHERS

11 TECHNICAL CERAMICS MARKET, BY REGION

11.1 INTRODUCTION

11.2 NORTH AMERICA

- 11.2.1 U.S.
- 11.2.2 CANADA
- 11.2.3 MEXICO
- 11.3 ASIA-PACIFIC
 - 11.3.1 CHINA
 - 11.3.2 INDIA
 - 11.3.3 JAPAN
 - 11.3.4 SOUTH KOREA
- 11.4 EUROPE
 - 11.4.1 GERMANY
 - 11.4.2 FRANCE
 - 11.4.3 NETHERLANDS
 - 11.4.4 RUSSIA
 - 11.4.5 U.K.
- 11.5 MIDDLE EAST & AFRICA
 - 11.5.1 SAUDI ARABIA
 - 11.5.2 SOUTH AFRICA
- 11.6 SOUTH AMERICA
 - 11.6.1 BRAZIL

12 COMPETITIVE LANDSCAPE

- 12.1 OVERVIEW
- 12.2 COMPETITIVE SITUATIONS AND TRENDS
- 12.3 KEY GROWTH STRATEGIES IN THE TECHNICAL CERAMICS MARKET, 2011–2016
- 12.4 EXPANSIONS, INVESTMENTS, AND AGREEMENTS
- 12.5 NEW PRODUCT LAUNCHES
- 12.6 MERGERS & ACQUISITIONS

13 COMPANY PROFILES

(Overview, Financial*, Products & Services, Strategy, and Developments)

- 13.1 COORSTEK INC.
- 13.2 CERAMTEC GMBH
- 13.3 KYOCERA CORPORATION
- 13.4 MORGAN ADVANCED MATERIALS
- 13.5 SAINT–GOBAIN CERAMIC MATERIALS

- 13.6 NGK SPARK PLUG CO., LTD.
- 13.7 CERADYNE INC. (3M COMPANY)
- 13.8 MCDANEL ADVANCED CERAMIC TECHNOLOGIES LLC
- 13.9 RAUSCHERT STEINBACH GMBH
- 13.10 SUPERIOR TECHNICAL CERAMICS
- 13.11 OTHER KEY PLAYERS
- 13.12 LIST OF CUSTOMERS

*Details might not be captured in case of unlisted companies.

14 APPENDIX

- 14.1 INSIGHTS OF INDUSTRY EXPERTS
- 14.2 DISCUSSION GUIDE
- 14.3 INTRODUCING RT: REAL TIME MARKET INTELLIGENCE
- 14.4 KNOWLEDGE STORE: MARKETSandMARKETS SUBSCRIPTION PORTAL
- 14.5 AVAILABLE CUSTOMIZATIONS
- 14.6 RELATED REPORTS 174LIST OF TABLES
 - Table 1 TECHNICAL CERAMICS MARKET, BY MATERIAL TYPE
 - Table 2 TECHNICAL CERAMICS MARKET, BY PRODUCT TYPE
 - Table 3 TECHNICAL CERAMICS MARKET, BY END-USE INDUSTRY
 - Table 4 TRENDS AND FORECASTS OF GDP, 2015–2021 (USD BILLION)
 - Table 5 PER CAPITA GDP VS. PER CAPITA TECHNICAL CERAMICS DEMAND, 2015
 - Table 6 AUTOMOTIVE SALES DATA, 2011–2015 (THOUSAND UNITS)
 - Table 7 OXIDE CERAMICS MARKET SIZE, BY REGION, 2014–2021 (KILOTON)
 - Table 8 OXIDE CERAMICS MARKET SIZE, BY REGION, 2014–2021 (USD MILLION)
 - Table 9 ALUMINA CERAMICS MARKET SIZE, BY REGION, 2014–2021 (KILOTON)
 - Table 10 ALUMINA CERAMICS MARKET SIZE, BY REGION, 2014–2021 (USD MILLION)
 - Table 11 TITANATE CERAMICS MARKET SIZE, BY REGION, 2014–2021 (KILOTON)
 - Table 12 TITANATE CERAMICS MARKET SIZE, BY REGION, 2014–2021 (USD MILLION)
 - Table 13 ZIRCONIA CERAMICS MARKET SIZE, BY REGION, 2014–2021 (KILOTON)
 - Table 14 ZIRCONIA CERAMICS MARKET SIZE, BY REGION, 2014–2021 (USD MILLION)
 - Table 15 NON-OXIDE CERAMICS MARKET SIZE, BY REGION, 2014–2021 (KILOTON)
 - Table 16 NON-OXIDE CERAMICS MARKET SIZE, BY REGION, 2014–2021 (USD

MILLION)

Table 17 ALUMINA NITRIDE MARKET SIZE, BY REGION, 2014–2021 (KILOTON)

Table 18 ALUMINA NITRIDE MARKET SIZE, BY REGION, 2014–2021 (USD MILLION)

Table 19 SILICON NITRIDE MARKET SIZE, BY REGION, 2014–2021 (KILOTON)

Table 20 SILICON NITRIDE MARKET SIZE, BY REGION, 2014–2021 (USD MILLION)

Table 21 SILICON CARBIDE MARKET SIZE, BY REGION, 2014–2021 (KILOTON)

Table 22 SILICON CARBIDE MARKET SIZE, BY REGION, 2014–2021 (USD MILLION)

Table 23 MONOLITHIC CERAMICS MARKET SIZE, BY REGION, 2014–2021

(KILOTON)

Table 24 MONOLITHIC CERAMICS MARKET SIZE, BY REGION, 2014–2021 (USD MILLION)

Table 25 CERAMIC MATRIX COMPOSITES MARKET SIZE, BY REGION, 2014–2021 (KILOTON)

Table 26 CERAMIC MATRIX COMPOSITES MARKET SIZE, BY REGION, 2014–2021 (USD MILLION)

Table 27 CERAMIC COATINGS MARKET SIZE, BY REGION, 2014–2021 (KILOTON)

Table 28 CERAMIC COATINGS MARKET SIZE, BY REGION, 2014–2021 (USD MILLION)

Table 29 OTHERS MARKET SIZE, BY REGION, 2014–2021 (KILOTON)

Table 30 OTHERS MARKET SIZE, BY REGION, 2014–2021 (USD MILLION)

Table 31 TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 32 TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 33 TECHNICAL CERAMICS MARKET SIZE IN ELECTRONICS & SEMICONDUCTOR END-USE INDUSTRY, BY REGION, 2014–2021 (KILOTON)

Table 34 TECHNICAL CERAMICS MARKET SIZE IN ELECTRONICS & SEMICONDUCTOR END-USE INDUSTRY, BY REGION, 2014–2021 (USD MILLION)

Table 35 TECHNICAL CERAMICS MARKET SIZE IN AUTOMOTIVE END-USE INDUSTRY, BY REGION, 2014–2021 (KILOTON)

Table 36 TECHNICAL CERAMICS MARKET SIZE IN AUTOMOTIVE END-USE INDUSTRY, BY REGION, 2014–2021 (USD MILLION)

Table 37 TECHNICAL CERAMICS MARKET SIZE IN ENERGY & POWER END-USE INDUSTRY, BY REGION, 2014–2021 (KILOTON)

Table 38 TECHNICAL CERAMICS MARKET SIZE IN ENERGY & POWER END-USE INDUSTRY, BY REGION, 2014–2021 (USD MILLION)

Table 39 TECHNICAL CERAMICS MARKET SIZE IN INDUSTRIAL END-USE INDUSTRY, BY REGION, 2014–2021 (KILOTON)

Table 40 TECHNICAL CERAMICS MARKET SIZE IN INDUSTRIAL END-USE

INDUSTRY, BY REGION, 2014–2021 (USD MILLION)

Table 41 TECHNICAL CERAMICS MARKET SIZE IN MEDICAL END-USE INDUSTRY, BY REGION, 2014–2021 (KILOTON)

Table 42 TECHNICAL CERAMICS MARKET SIZE IN MEDICAL END-USE INDUSTRY, BY REGION, 2014–2021 (USD MILLION)

Table 43 TECHNICAL CERAMICS MARKET SIZE IN MILITARY & DEFENSE END-USE INDUSTRY, BY REGION, 2014–2021 (KILOTON)

Table 44 TECHNICAL CERAMICS MARKET SIZE IN MILITARY & DEFENSE END-USE INDUSTRY, BY REGION, 2014–2021 (USD MILLION)

Table 45 TECHNICAL CERAMICS MARKET SIZE IN OTHER END-USE INDUSTRIES, BY REGION, 2014–2021 (KILOTON)

Table 46 TECHNICAL CERAMICS MARKET SIZE IN OTHER END-USE INDUSTRIES, BY REGION, 2014–2021 (USD MILLION)

Table 47 TECHNICAL CERAMICS MARKET SIZE, BY REGION, 2014–2021 (KILOTON)

Table 48 TECHNICAL CERAMICS MARKET SIZE, BY REGION, 2014–2021 (USD MILLION)

Table 49 NORTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY COUNTRY, 2014–2021 (KILOTON)

Table 50 NORTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY COUNTRY, 2014–2021 (USD MILLION)

Table 51 NORTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY MATERIAL, 2014–2021 (KILOTON)

Table 52 NORTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY MATERIAL, 2014–2021 (USD MILLION)

Table 53 NORTH AMERICA: OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (KILOTON)

Table 54 NORTH AMERICA: OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (USD MILLION)

Table 55 NORTH AMERICA: NON-OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (KILOTON)

Table 56 NORTH AMERICA: NON-OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (USD MILLION)

Table 57 NORTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY PRODUCT, 2014–2021 (KILOTON)

Table 58 NORTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY PRODUCT, 2014–2021 (USD MILLION)

Table 59 NORTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 60 NORTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 61 U.S.: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 62 U.S.: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 63 CANADA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 64 CANADA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 65 MEXICO: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 66 MEXICO: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 67 ASIA-PACIFIC: TECHNICAL CERAMICS MARKET SIZE, BY COUNTRY, 2014–2021 (KILOTON)

Table 68 ASIA-PACIFIC: TECHNICAL CERAMICS MARKET SIZE, BY COUNTRY, 2014–2021 (USD MILLION)

Table 69 ASIA-PACIFIC: TECHNICAL CERAMICS MARKET SIZE, BY MATERIAL, 2014–2021 (KILOTON)

Table 70 ASIA-PACIFIC: TECHNICAL CERAMICS MARKET SIZE, BY MATERIAL, 2014–2021 (USD MILLION)

Table 71 ASIA-PACIFIC: OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (KILOTON)

Table 72 ASIA-PACIFIC: OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (USD MILLION)

Table 73 ASIA-PACIFIC: NON-OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (KILOTON)

Table 74 ASIA-PACIFIC: NON-OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (USD MILLION)

Table 75 ASIA-PACIFIC: TECHNICAL CERAMICS MARKET SIZE, BY PRODUCT, 2014–2021 (KILOTON)

Table 76 ASIA-PACIFIC: TECHNICAL CERAMICS MARKET SIZE, BY PRODUCT, 2014–2021 (USD MILLION)

Table 77 ASIA-PACIFIC: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 78 ASIA-PACIFIC: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 79 CHINA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY,

2014–2021 (KILOTON)

Table 80 CHINA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 81 INDIA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 82 INDIA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 83 JAPAN: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 84 JAPAN: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 85 SOUTH KOREA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 86 SOUTH KOREA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 87 EUROPE: TECHNICAL CERAMICS MARKET SIZE, BY COUNTRY, 2014–2021 (KILOTON)

Table 88 EUROPE: TECHNICAL CERAMICS MARKET SIZE, BY COUNTRY, 2014–2021 (USD MILLION)

Table 89 EUROPE: TECHNICAL CERAMICS MARKET SIZE, BY MATERIAL, 2014–2021 (KILOTON)

Table 90 EUROPE: TECHNICAL CERAMICS MARKET SIZE, BY MATERIAL, 2014–2021 (USD MILLION)

Table 91 EUROPE: OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (KILOTON)

Table 92 EUROPE: OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (USD MILLION)

Table 93 EUROPE: NON-OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (KILOTON)

Table 94 EUROPE: NON-OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (USD MILLION)

Table 95 EUROPE: TECHNICAL CERAMICS MARKET SIZE, BY PRODUCT, 2014–2021 (KILOTON)

Table 96 EUROPE: TECHNICAL CERAMICS MARKET SIZE, BY PRODUCT, 2014–2021 (USD MILLION)

Table 97 EUROPE: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 98 EUROPE: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 99 GERMANY: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 100 GERMANY: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 101 FRANCE: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 102 FRANCE: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 103 NETHERLANDS: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 104 NETHERLANDS: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 105 RUSSIA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 106 RUSSIA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 107 U.K.: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 108 U.K.: TECHNICAL CERAMICS MARKET SIZE, BY END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 109 MIDDLE EAST & AFRICA: TECHNICAL CERAMICS MARKET SIZE, BY COUNTRY, 2014–2021 (KILOTON)

Table 110 MIDDLE EAST & AFRICA: TECHNICAL CERAMICS MARKET SIZE, BY COUNTRY, 2014–2021 (USD MILLION)

Table 111 MIDDLE EAST & AFRICA: TECHNICAL CERAMICS MARKET SIZE, BY MATERIAL, 2014–2021 (KILOTON)

Table 112 MIDDLE EAST & AFRICA: TECHNICAL CERAMICS MARKET SIZE, BY MATERIAL, 2014–2021 (USD MILLION)

Table 113 MIDDLE EAST & AFRICA: OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (KILOTON)

Table 114 MIDDLE EAST & AFRICA: OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (USD MILLION)

Table 115 MIDDLE EAST & AFRICA: NON-OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (KILOTON)

Table 116 MIDDLE EAST & AFRICA: NON-OXIDE CERAMICS MARKET SIZE, BY TYPE, 2014–2021 (USD MILLION)

Table 117 MIDDLE EAST & AFRICA: TECHNICAL CERAMICS MARKET SIZE, BY PRODUCT, 2014–2021 (KILOTON)

Table 118 MIDDLE EAST & AFRICA: TECHNICAL CERAMICS MARKET SIZE, BY

PRODUCT, 2014–2021 (USD MILLION)

Table 119 MIDDLE EAST & AFRICA: TECHNICAL CERAMICS MARKET SIZE, BY
END-USE INDUSTRY, 2014–2021 (KILOTON)

Table 120 MIDDLE EAST & AFRICA: TECHNICAL CERAMICS MARKET SIZE, BY
END-USE INDUSTRY, 2014–2021 (USD MILLION)

Table 121 SAUDI ARABIA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE
INDUSTRY, 2014–2021 (KILOTON)

Table 122 SAUDI ARABIA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE
INDUSTRY, 2014–2021 (USD MILLION)

Table 123 SOUTH AFRICA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE
INDUSTRY, 2014–2021 (KILOTON)

Table 124 SOUTH AFRICA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE
INDUSTRY, 2014–2021 (USD MILLION)

Table 125 SOUTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY
COUNTRY, 2014–2021 (KILOTON)

Table 126 SOUTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY
COUNTRY, 2014–2021 (USD MILLION)

Table 127 SOUTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY
MATERIAL, 2014–2021 (KILOTON)

Table 128 SOUTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY
MATERIAL, 2014–2021 (USD MILLION)

Table 129 SOUTH AMERICA: OXIDE CERAMICS MARKET SIZE, BY TYPE,
2014–2021 (KILOTON)

Table 130 SOUTH AMERICA: OXIDE CERAMICS MARKET SIZE, BY TYPE,
2014–2021 (USD MILLION)

Table 131 SOUTH AMERICA: NON-OXIDE CERAMICS MARKET SIZE, BY TYPE,
2014–2021 (KILOTON)

Table 132 SOUTH AMERICA: NON-OXIDE CERAMICS MARKET SIZE, BY TYPE,
2014–2021 (USD MILLION)

Table 133 SOUTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY
PRODUCT, 2014–2021 (KILOTON)

Table 134 SOUTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY
PRODUCT, 2014–2021 (USD MILLION)

Table 135 SOUTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE
INDUSTRY, 2014–2021 (KILOTON)

Table 136 SOUTH AMERICA: TECHNICAL CERAMICS MARKET SIZE, BY END-USE
INDUSTRY, 2014–2021 (USD MILLION)

Table 137 BRAZIL: TECHNICAL CERAMICS MARKET SIZE, BY END-USE
INDUSTRY, 2014–2021 (KILOTON)

Table 138 BRAZIL: TECHNICAL CERAMICS MARKET SIZE, BY END-USE
INDUSTRY, 2014–2021 (USD MILLION)

Table 139 EXPANSIONS, INVESTMENTS, AND AGREEMENTS, 2011–2016

Table 140 NEW PRODUCT LAUNCHES, 2011–2016

Table 141 MERGERS & ACQUISITIONS, 2011–2016

List Of Figures

LIST OF FIGURES

- Figure 1 TECHNICAL CERAMICS: MARKET SEGMENTATION
- Figure 2 TECHNICAL CERAMICS MARKET: RESEARCH DESIGN
- Figure 3 MARKET SIZE ESTIMATION: BOTTOM-UP APPROACH
- Figure 4 MARKET SIZE ESTIMATION: TOP-DOWN APPROACH
- Figure 5 DATA TRIANGULATION
- Figure 6 TECHNICAL CERAMICS MARKET SNAPSHOT: MEDICAL END-USE INDUSTRY TO REGISTER HIGHEST CAGR
- Figure 7 CERAMIC MATRIX COMPOSITES: THE FASTEST-GROWING PRODUCT TYPE BETWEEN 2016 AND 2021
- Figure 8 U.S.: THE LARGEST TECHNICAL CERAMICS MARKET
- Figure 9 ASIA-PACIFIC: THE LARGEST REGION FOR TECHNICAL CERAMICS MARKET
- Figure 10 ATTRACTIVE OPPORTUNITIES IN THE TECHNICAL CERAMICS MARKET, 2016–2021
- Figure 11 ELECTRONICS & SEMICONDUCTOR TO BE THE LARGEST END-USE INDUSTRY FOR TECHNICAL CERAMICS
- Figure 12 CHINA TO BE THE LARGEST MARKET FOR TECHNICAL CERAMICS IN ASIA-PACIFIC
- Figure 13 ASIA-PACIFIC ACCOUNTED FOR THE LARGEST SHARE OF THE TECHNICAL CERAMICS MARKET, 2015
- Figure 14 CERAMIC MATRIX COMPOSITES TO BE THE FASTEST-GROWING PRODUCT TYPE
- Figure 15 TECHNICAL CERAMICS MARKET IN ASIA-PACIFIC IS IN THE GROWTH PHASE
- Figure 16 TECHNICAL CERAMICS MARKET, BY REGION
- Figure 17 GROWING DEMAND FOR TECHNICAL CERAMICS IN THE MEDICAL END-USE INDUSTRY
- Figure 18 TECHNICAL CERAMICS: VALUE CHAIN ANALYSIS
- Figure 19 PORTER'S FIVE FORCES ANALYSIS: TECHNICAL CERAMICS MARKET
- Figure 20 LIST OF WORLDWIDE PUBLISHED PATENTS COVERING THE USE OF TECHNICAL CERAMICS:
- Figure 21 TRENDS AND FORECASTS OF GDP, 2016–2021 (USD BILLION)
- Figure 22 PER CAPITA GDP VS. PER CAPITA TECHNICAL CERAMICS DEMAND
- Figure 23 AUTOMOTIVE INDUSTRY: VEHICLE SALE DATA ANALYSIS, 2015 (THOUSAND UNITS)

Figure 24 TECHNICAL CERAMICS MARKET, BY MATERIAL

Figure 25 ASIA-PACIFIC DOMINATES THE OXIDE CERAMICS MARKET

Figure 26 ASIA PACIFIC TO REGISTER HIGHEST CAGR FOR ALUMINA CERAMICS BETWEEN 2016 AND 2021

Figure 27 EUROPE IS THE SECOND FASTEST-GROWING MARKET FOR TITANATE CERAMICS

Figure 28 NORTH AMERICA IS THE SECOND-LARGEST MARKET FOR ZIRCONIA CERAMICS

Figure 29 ASIA-PACIFIC DOMINATES THE NON-OXIDE CERAMICS MARKET

Figure 30 ASIA-PACIFIC DOMINATES THE ALUMINA NITRIDE MARKET

Figure 31 SOUTH AMERICA IS THE SECOND FASTEST-GROWING REGION FOR SILICON NITRIDE

Figure 32 SOUTH AMERICA IS THE SECOND FASTEST-GROWING REGION FOR SILICON NITRIDE

Figure 33 TECHNICAL CERAMICS MARKET BY PRODUCT TYPE

Figure 34 ASIA-PACIFIC DOMINATES THE MONOLITHIC CERAMICS MARKET (2016–2021)

Figure 35 ASIA-PACIFIC IS THE FASTEST-GROWING MARKET FOR CERAMIC MATRIX COMPOSITES (2016–2021)

Figure 36 NORTH AMERICA IS THE SECOND-LARGEST MARKET FOR CERAMIC COATINGS (2016–2021)

Figure 37 ASIA-PACIFIC IS THE FASTEST-GROWING MARKET FOR OTHERS SEGMENT BETWEEN 2016 AND 2021

Figure 38 MEDICAL SEGMENT: HIGH INVESTMENT OPPORTUNITIES

Figure 39 ELECTRONICS & SEMICONDUCTOR TO ACCOUNT FOR LARGEST SHARE OF TECHNICAL CERAMIC MARKET

Figure 40 ASIA-PACIFIC IS THE FASTEST-GROWING MARKET FOR TECHNICAL CERAMICS IN ELECTRONICS & SEMICONDUCTOR END-USE INDUSTRY (2016–2021)

Figure 41 ASIA-PACIFIC: MARKET LEADER IN THE AUTOMOTIVE END-USE INDUSTRY, 2016–2021

Figure 42 ASIA-PACIFIC: THE FASTEST-GROWING MARKET FOR TECHNICAL CERAMICS IN ENERGY & POWER END-USE INDUSTRY, 2016–2021

Figure 43 ASIA-PACIFIC: THE FASTEST-GROWING TECHNICAL CERAMICS MARKET IN INDUSTRIAL END-USE INDUSTRY, 2016–2021

Figure 44 ASIA-PACIFIC: LARGEST MARKET IN MEDICAL END-USE INDUSTRY IN 2016

Figure 45 SOUTH AMERICA IS THE SECOND FASTEST-GROWING MARKET IN MILITARY & DEFENSE END-USE INDUSTRY, 2016–2021

Figure 46 INDIA, CHINA, JAPAN, AND BRAZIL ARE EMERGING AS THE NEW HOTSPOTS

Figure 47 THE U.S. WAS THE KEY MARKET FOR TOP 3 END-USE INDUSTRIES OF TECHNICAL CERAMICS IN NORTH AMERICA (2015)

Figure 48 THE U.S. TO REMAIN THE LEADING PLAYER IN THE TECHNICAL CERAMICS MARKET IN NORTH AMERICA TILL 2021

Figure 49 REGIONAL SNAPSHOT (2015): ASIA-PACIFIC TO BE THE LARGEST MARKET FOR TECHNICAL CERAMICS

Figure 50 CHINA TO REMAIN THE LEADING PLAYER IN THE TECHNICAL CERAMICS MARKET IN ASIA-PACIFIC TILL 2021

Figure 51 REGIONAL SNAPSHOT (2015): GERMANY IS THE LARGEST MARKET FOR TECHNICAL CERAMICS IN EUROPE

Figure 52 BRAZIL: THE FASTEST-GROWING MARKET FOR TECHNICAL CERAMICS IN SOUTH AMERICA

Figure 53 COMPANIES ADOPTED NEW PRODUCT LAUNCHES AS THE KEY GROWTH STRATEGY, 2011–2016

Figure 54 BATTLE FOR MARKET SHARE: NEW PRODUCT LAUNCHES THE MOST ADOPTED STRATEGY, 2011–2016

Figure 55 KYOCERA CORPORATION: COMPANY SNAPSHOT

Figure 56 KYOCERA CORPORATION: SWOT ANALYSIS

Figure 57 MORGAN ADVANCED MATERIALS: COMPANY SNAPSHOT

Figure 58 MORGAN ADVANCED MATERIALS: SWOT ANALYSIS

Figure 59 SAINT-GOBAIN CERAMIC MATERIALS: SWOT ANALYSIS

Figure 60 NGK SPARK PLUG CO., LTD.: COMPANY SNAPSHOT

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