

Monolithic Ceramics Applications - A Global Market Overview

<https://marketpublishers.com/r/M5E9F346881EN.html>

Date: June 2011

Pages: 310

Price: US\$ 3,960.00 (Single User License)

ID: M5E9F346881EN

Abstracts

Major applications of Monolithic Ceramics comprise Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other. Of all these, Electrical & Electronic Parts, accounting for an estimated 58.4% in 2011, translating into US\$17.4 billion, corner the largest share, followed by Catalyst Supports, Filters and Wear Parts. The global market for monolithic ceramics in 2011 is estimated to touch US\$29.8 billion.

Market for Monolithic Ceramics application areas analyzed in this study includes Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and among others that include Engine Parts, Bioceramics, Membranes and Cutting Tools and Body Armor applications. The report analyses the market in terms of US Dollars.

The report reviews, analyses and projects the Monolithic Ceramics market for global and the regional markets including the United States, Japan, Europe, Asia-Pacific and Rest of World. The regional markets further analyzed for 10 more independent countries across Europe – France, Germany, Italy, Russia, Spain and the United Kingdom; Asia-Pacific – China, India, South Korea and Taiwan.

This 310 page global market report includes 78 charts (includes a data table and graphical representation for each chart), supported with meaningful and easy to understand graphical presentation, of the market. The statistical tables represent the data for the global market by geographic region and end-use applications of Monolithic Ceramics. The brief business profiles of 109 key global players and 161 major players across the United States – 72; Japan - 20; Europe – 49; Asia-Pacific – 16; and Rest of World – 4 are included in the report.

The report also provides the listing of the companies engaged in research and

development, raw material & equipment manufacturing, processing, supplies and distribution of Advanced Ceramics. The global list covers the addresses, contact numbers and the website addresses of 531 companies.

Contents

1. GLOBAL MARKET PERSPECTIVE

1.1 INTRODUCTION

1.2 PRODUCT OUTLINE

- 1.2.1 Ceramics in Ancient Era – A Backdrop
- 1.2.2 Advanced Ceramics
- 1.2.3 Advanced Ceramics – The Future Ahead
- 1.2.4 Monolithic Ceramics
 - 1.2.4.1 Ceramic Oxides
 - 1.2.4.2 Ceramic Non-Oxides
- 1.2.5 End-Use Applications of Monolithic Ceramics
 - 1.2.5.1 Electrical & Electronic Parts
 - 1.2.5.2 Catalyst Supports
 - 1.2.5.3 Wear Parts
 - 1.2.5.4 Filters

1.3 KEY MARKET TRENDS

- 1.3.1 Silicon Nitride Ceramic Material with Enhanced Resistance to Thermal Shocks at High Temperature Developed
- 1.3.2 Wind and Solar Energy to be Stored in Ceramic Capacitors
- 1.3.3 High Temperature Kilns for Advanced Ceramics
 - 1.3.3.1 Fuel Fired Elevator Kiln
- 1.3.4 Lead-Free Piezoelectric Ceramics: What is on Offer?
- 1.3.5 “Lead Times” a Setback for Capacitor Demand
 - 1.3.5.1 Ceramics to the Rescue?
 - 1.3.5.2 What Does the Future Hold?
- 1.3.6 Aerospace Industry and Advanced Ceramics: An Unlikely Combination?
 - 1.3.6.1 Innovations in Instrumentation and Control Systems
 - 1.3.6.2 Seals and Thermocouples
 - 1.3.6.3 Component Repair of Aero Engines
 - 1.3.6.4 Ion Propulsion
 - 1.3.6.5 At the End
- 1.3.7 Military Sonar Systems and Ceramics: A Crucial Combination
 - 1.3.7.1 Undersea Accurate Detection Facilitated by Use of Ceramics
 - 1.3.7.2 Piezoelectric Ceramics in Comparison to Magnostriuctive Technologies
 - 1.3.7.3 Pre-Stressed Tubes
 - 1.3.7.4 Piezoelectric Composite Materials
 - 1.3.7.5 Finally

1.3.8 Automobile Innovation Being Driven by Piezoelectric Ceramics

1.3.8.1 PZT and PMN-PT28

1.3.8.2 Fuel Level Sensors

1.3.8.3 Car Seat Valve Actuators

1.3.8.4 Auguring Further

1.4 KEY GLOBAL PLAYERS

Advanced Cerametrics Inc

Advanced Monolythic Ceramics, Inc

AGC Ceramics Co., Ltd.

Aremco Products, Inc

Asahi Glass Co Ltd

Astro Met Inc

AVX Corporation

BAE Systems Plc

Barat Ceramics GmbH

Bayer AG

Belanger Industrial Group Inc

Blasch Precision Ceramics

Bocent Advanced Ceramic Co Ltd

C.L. Smith Industrial Company

Carpenter Technology Corporation

Ceradyne Inc

Ceram Research Ltd

Ceramic Coating Inc

Ceramics Process Systems Corporation (CPS)

Ceramtec GmbH

Cercom Inc

Cetek Technologies, Inc

COI Ceramics Inc

Compagnie De Saint-Gobain

Cookson Group Plc

Coorstek, Inc

Covalent Materials Corporation

Crystex Composites LLC

Denka Chemicals GmbH

Denki Kagaku Kogyo Kabushiki Kaisha

DIMAT, Inc

Du-Co Ceramics Company

Elektroporcelan Louny AS

Enceratec, Inc
ETEC Gesellschaft F?r Technische Keramik GmbH
Ferro-Ceramic Grinding Inc
Ferroperm (UK) Limited
Friatec AG
Fuji Ceramics Corporation
GE Power Systems Composites
Hitachi Chemical Co., Ltd.
HP Technical Ceramics Ltd
Industrial Ceramic Technology Inc (ICT)
International Ceramic Engineering
International Syalons Limited
Johanson Dielectrics Inc
K.C Industries Pty Ltd
KCM Corporation
KEIR Manufacturing Inc
Kemet Corporation
Kennametal Sintec Keramik GmbH
Kerafol Keramische Folien GmbH
Kinetic Ceramics Inc
Krahn Chemie GmbH
Kyocera Corporation
Kyocera Industrial Ceramics Corporation
Maryland Ceramic & Steatite Company, Inc
Micro Ceramics Limited
Millennium Materials, Inc (MMI)
Mitsubishi Electric Metecs Co Ltd
Morgan Advanced Ceramics Wesgo Ceramics GmbH
Morgan Technical Ceramics
Morgan Thermal Ceramics
Murata Electronics North America Inc
Murata Europe
Murata Manufacturing Co Ltd
Nabaltec AG
New Zealand Insulators Limited
NGK Insulators Ltd.
Nicera European Works Ltd
Nippon Ceramic Co Ltd
Noliac AS

Noritake Co Ltd
Osram Sylvania
Physik Instrumente (PI) Gmbh & Co Kg
Piezo Kinetics, Inc
Praxair Inc
Rauschert Gmbh & Co Kg
Refractron Technologies Corp
RHI AG
Rockwood Holdings, Inc
Saint-Gobain Advanced Ceramics (Shanghai) Co., Ltd
Saint-Gobain Advanced Ceramics Lauf GmbH
Saint-Gobain Ceramics & Plastics Inc
Sakai Chemical Industry Company Limited
Samsung Electro-Mechanics Co Ltd
Sandvik AA
Sensor Technology Limited
Siemens AG
SMAHT Ceramics, Inc
Small Precision Tools Inc
Societe Des Ceramiques Techniques
Solvay Chemicals
Sparkler Ceramics Pvt Ltd
Sulzer Metco Ltd
Sumida Components GmbH
Superior Technical Ceramics Corp
Surmet Corporation
Taiyo Yuden Co., Ltd.
Tata Refractories Ltd
Taylor Ceramic Engineering
TDK Corporation
Temex-Ceramics
The Morgan Crucible Company PLC
Toshiba Ceramics America, Inc
Vesuvius Group SA/NV
Yageo Corp
Yigang Precision Ceramic Co Ltd
Zircoa, Inc

1.5 KEY BUSINESS TRENDS

Rojan Advanced Ceramics Acquired by Ludowici

General Automotive, SenCer Inc in a Joint Venture
GCJ Series of Monolithic Ceramic Capacitors from Murata
Texas Instruments to Take Over National Semiconductor
New Soft Termination Multilayer Ceramic Capacitors from Yageo
Brush Engineered Materials Inc Adopts New Name
Precision Ceramic Pump Components for Hybrid and Electric Vehicles from Morgan
Ceradyne Acquires Minority Stake in Yamanaka EP Corporation
AVX Expands LGA Ceramic Decoupling Capacitor Series
Sunrock Ceramics to Increase Production Capacity Twofold
Miniature Multilayer Ceramic Capacitor from AVX
Ceradyne's New Solar Energy Ceramic-Related Factory in Tianjin, China
Morgan Crucible Takes Over Certech and Carpenter Advanced Ceramics
Saint-Gobain Advanced Ceramics Acquired by CoorsTek
Change of Name for Abresist Kalenborn
New Multilayer Ceramic Capacitor Arrays from AVX
Ceramic Chip Capacitor Array from KEMET in Reduced Case Size
New Piezoceramic Materials from Morgan Technical Ceramics
Flex Mitigation Technology Showcased by KEMET at Electronica 2010
Co-Fired Piezo Bimorphs for Harsh Environments from Morgan Technical Ceramics
Kevlar® XP™ for Hard Armor Applications Launched by DuPont
Intercat to be Taken Over by Johnson Matthey
H.C. Starck Divests its Global Conductive Polymers Business Unit to Heraeus
Morgan Technical Ceramics Offers New Thermocoupling Tube
Lockheed, Ceradyne in an Agreement
Watlow Launches ULTRAMIC®
Glass-Ceramics Substrate for High-Power LED Lighting Launched by Asahi Glass
Murata Offers Industry's smallest 0402-Size Monolithic Ceramic Capacitor
CeramTec AG Displays Ceramic Heat Sinks at the PCIM in Nuremberg
World's Smallest 10µF, 25V Rated Monolithic Ceramic Capacitor from Murata
Murata Launches GW Series Capacitors
TDK-EPC Introduces New Series of Multilayer Ceramic Capacitors
New Series of Ceramic Disc Capacitor from Trigon
New Production Unit Acquired by China Ceramics Co Ltd
Double-Layer Super Capacitor in Stacked Coin Type Launched by Trigon
Morgan's Metal Injection Molding Acquired by Parmatech-Proform Corp
Morgan to Produce Fused Silica Rollers for Solar Applications at US Unit
Panasonic Electronic Devices' MLCC business Taken Over by Murata
Low-Profile Multilayer Ceramic Capacitors from Taiyo Yuden
CoorsTek and GL&V Pulp & Paper Group in an Alliance

Advanced Ceramics Research, Inc Acquired by BAE Systems
New Multilayer Ceramic Capacitor from Murata
CoorsTek, IBS Paper Performance Group of America in an Alliance

1.6 GLOBAL MARKET OVERVIEW

- 1.6.1 Market Overview by Application Area
- 1.6.2 Ceramic Application Market Overview by Global Region
 - 1.6.2.1 Electrical & Electronic Parts
 - 1.6.2.2 Catalyst Supports
 - 1.6.2.3 Filters
 - 1.6.2.4 Wear Parts
 - 1.6.2.5 Other Applications

2. REGIONAL MARKET PERSPECTIVE

REGIONAL MARKET OVERVIEW

2.1 THE UNITED STATES

- 2.1.1 Market Overview by Application Area
- 2.1.2 Major Market Players
 - Accuratus Corporation
 - Advanced Cerametrics Inc
 - Advanced Ceramics Research, Inc
 - Advanced Monolythic Ceramics, Inc
 - Advanced Industrial Ceramics
 - American Electronic Ceramics Inc
 - American Technical Ceramics Corp
 - APC International Ltd
 - Applied Ceramics Inc
 - Aremco Products, Inc
 - Associated Ceramics & Technology Inc
 - ASTRO Met Inc
 - AVX Corporation
 - Belanger Industrial Group Inc
 - Blasch Precision Ceramics
 - C.L. Smith Industrial Company
 - Carpenter Technology Corporation
 - Ceradyne Inc
 - Ceramatec, Inc

Ceramic Coating Inc
Ceramics Process Systems Corporation (CPS)
Cercos LLC
Cercom Inc
Cetek Technologies, Inc
COI Ceramics Inc
Coorstek, Inc
Crystex Composites LLC
Dimat, Inc
Du-Co Ceramics Company
Electro Abrasives Corp
Enceratec, Inc
Ferro Corporation
Ferro-Ceramic Grinding Inc
GE Power Systems Composites
Industrial Ceramic Technology Inc (ICT)
International Ceramic Engineering
Johanson Dielectrics Inc
KEIR Manufacturing Inc
Kemet Corporation
Kinetic Ceramics Inc
KION Corporation
KION Defense Technologies Inc
Kyocera Industrial Ceramics Corporation
Maryland Ceramic & Steatite Company, Inc
Millennium Materials, Inc (MMI)
Morgan Thermal Ceramics
Murata Electronics North America Inc
NATEL Engineering Co Inc
Northrop Grumman Corp
Osram Sylvania
Piezo Kinetics, Inc
Powdermet, Inc
Praxair Inc
Precision Ferrites and Ceramics, Inc
Professional Cryogenic Metallurgy & Coatings LLC
Refractron Technologies Corp
Resco Products, Inc
Richardson - American Technical Ceramics Corp

Rockwood Holdings, Inc
Saint-Gobain Advanced Ceramics-WRT
Saint-Gobain Ceramics & Plastics Inc
SMAHT Ceramics, Inc
Small Precision Tools Inc
Superior Technical Ceramics Corp
Surmet Corporation
Toshiba Ceramics America, Inc
TRS Technologies, Inc
T. Q. Abrasive Machining Co
Unifrax I LLC
Vishay Intertechnology Inc
Zircar Refractory Composites, Inc
Zircoa, Inc

2.2 JAPAN

2.2.1 Market Overview by Application Area

2.2.2 Major Market Players

AGC Ceramics Co., Ltd.
Asahi Glass Co Ltd
Covalent Materials Corporation
Denki Kagaku Kogyo Kabushiki Kaisha
Fuji Ceramics Corporation
Fuji Titanium Industry Co Ltd
Hitachi Chemical Co., Ltd.
KCM Corporation
Krosaki Harima Corporation
Kyocera Corporation
Mitsubishi Electric Metecs Co Ltd
Murata Manufacturing Co Ltd
NGK Insulators Ltd.
NGK Spark Plug Co Ltd
Nippon Ceramic Co Ltd
Noritake Co Ltd
Sakai Chemical Industry Company Limited
Taiyo Yuden Co., Ltd.
TDK Corporation
Tosoh Corporation

2.3 EUROPE

2.3.1 Market Overview by Geographic Region

2.3.2 Market Overview by Application Area

2.3.3 Ceramic Application Market Overview by European Region

2.3.3.1 Electrical & Electronic Parts

2.3.3.2 Catalyst Supports

2.3.3.3 Filters

2.3.3.4 Wear Parts

2.3.3.5 Other Applications

2.3.4 Major Market Players

BAE Systems PLC (United Kingdom)

Barat Ceramics GmbH (Germany)

Bayer AG (Germany)

BCE Special Ceramics GmbH (Germany)

Ceram Research Ltd (United Kingdom)

Ceramtec GmbH (Germany)

Compagnie De Saint-Gobain (France)

Cookson Group PLC (United Kingdom)

Denka Chemicals GmbH (Germany)

Dynamic-Ceramic Ltd. (United Kingdom)

Elektroporcelan Louny AS (Czech Republic)

Epcos AG (Germany)

ETEC Gesellschaft F?r Technische Keramik GmbH (Germany)

Ferroperm (UK) Limited (United Kingdom)

Fraunhofer-Gesellschaft (Germany)

Friatec AG (Germany)

H.C. Starck Ceramics (Germany)

HP Technical Ceramics Ltd (United Kingdom)

Hybrid Laser Tech Ltd (United Kingdom)

International Syalons Limited (United Kingdom)

Kennametal Sintec Keramik GmbH (Germany)

Kerafol Keramische Folien GmbH (Germany)

Krahn Chemie GmbH (Germany)

Morgan Advanced Ceramics Wesgo Ceramics GmbH (Germany)

Morgan Electro Ceramics (United Kingdom)

Morgan Technical Ceramics (United Kingdom)

Murata Europe (The Netherlands)

Nabaltec AG (Germany)

Nicera European Works Ltd (United Kingdom)

Noliac AS (Denmark)

Noliac Ceramics S.R.O. (Czech Republic)

Physik Instrumente (PI) GmbH & Co Kg (Germany)
Precision Ceramics (United Kingdom)
Rauschert GmbH & Co Kg (Germany)
RHI AG (Austria)
Roland Bittner GmbH (Germany)
Saint-Gobain Advanced Ceramics Lauf GmbH (Germany)
Saint-Gobain Quartz SAS (France)
Sandvik AB (Sweden)
Sembach GmbH & Co., Kg. (Germany)
Siemens AG (Germany)
Societe Des Ceramiques Techniques (France)
Solvay Chemicals (Belgium)
Sulzer Metco Ltd (Switzerland)
Sumida Components GmbH (Germany)
Temex-Ceramics (France)
The Morgan Crucible Company PLC (United Kingdom)
Ultrahard Materials Ltd (United Kingdom)
Vesuvius Group SA/NV (Belgium)

2.3.5 European Market Overview by Country

2.3.5.1 France
2.3.5.2 Germany
2.3.5.3 Italy
2.3.5.4 Russia
2.3.5.5 Spain
2.3.5.6 The United Kingdom
2.3.5.7 Rest of Europe

2.4 ASIA-PACIFIC

2.4.1 Market Overview by Geographic Region
2.4.2 Market Overview by Application Area
2.4.3 Ceramic Application Market Overview by Asia-Pacific Region
2.4.3.1 Electrical & Electronic Parts
2.4.3.2 Catalyst Supports
2.4.3.3 Filters
2.4.3.4 Wear Parts
2.4.3.5 Other Applications
2.4.4 Major Market Players
Advanced Ceramic X Corp (Taiwan)
Bocent Advanced Ceramic Co Ltd (China)
Ceramic Fuel Cells Limited (Australia)

Ceramic Transducer Design Co Ltd (Taiwan)
Jinzhou Yunxing Industrial Ceramics Co., Ltd (China)
K.C Industries Pty Ltd (Australia)
Multicoat Systems (India)
New Zealand Insulators Limited (New Zealand)
NTB Hitech Ceramics (India)
Saint-Gobain Advanced Ceramics (Shanghai) Co., Ltd (China)
Samsung Electro-Mechanics Co Ltd (South Korea)
Sparkler Ceramics Pvt Ltd (India)
TATA Refractories Ltd (India)
Taylor Ceramic Engineering (Australia)
YAGEO Corp (Taiwan)
YIGANG Precision Ceramic Co Ltd (China)

2.4.5 Asia-Pacific Market Overview by Country

2.4.5.1 China
2.4.5.2 India
2.4.5.3 South Korea
2.4.5.4 Taiwan
2.4.5.5 Rest of Asia-Pacific

2.5 REST OF WORLD

2.5.1 Market Overview by Application Area
2.5.2 Major Market Players
Micro Ceramics Limited (Israel)
Prima Developments Limited (Canada)
Raymor Industries, Inc. (Canada)
Sensor Technology Limited (Canada)

3. GUIDE TO THE INDUSTRY

3.1 NORTH AMERICA

3.1.1 Canada
3.1.2 United States

3.2 EUROPE

3.2.1 Austria
3.2.2 Belgium
3.2.3 Czech Republic
3.2.4 Denmark
3.2.5 France
3.2.6 Germany

- 3.2.7 Italy
- 3.2.8 Netherland
- 3.2.9 Norway
- 3.2.10 Poland
- 3.2.11 Spain
- 3.2.12 Sweden
- 3.2.13 Switzerland
- 3.2.14 United Kingdom

3.3 ASIA-PACIFIC

- 3.3.1 Australia
- 3.3.2 China
- 3.3.3 India
- 3.3.4 Japan
- 3.3.5 Malaysia
- 3.3.6 New Zealand
- 3.3.7 Singapore
- 3.3.8 South Korea
- 3.3.9 Taiwan

3.4 REST OF WORLD

- 3.4.1 Brazil
- 3.4.2 Iran
- 3.4.3 Israel

4. ANNEXURE

- 4.1 RESEARCH METHODOLOGY
- 4.2 THE QUESTIONNAIRE
- 4.3 FEEDBACK

CHARTS & GRAPHS

1. GLOBAL MARKET PERSPECTIVE

Chart 1: Global Monolithic Ceramics Market for Electrical & Electronic Parts Applications in 2011 (E) by Geographic Region in USD Million

Chart 2: Global Monolithic Ceramics Market for Catalyst Supports Applications in 2011 (E) by Geographic Region in USD Million

Chart 3: Global Monolithic Ceramics Market for Wear Parts Applications in 2011 (E) by Geographic Region in USD Million

Chart 4: Global Monolithic Ceramics Market for Filters Applications in 2011 (E) by Geographic Region in USD Million

Chart 5: Global Monolithic Ceramics Market Analysis (2007-2017) in USD Million

Chart 6: Global Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 7: Glance at 2007, 2012 and 2017 Global Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

Chart 8: Global Monolithic Ceramics for Electrical & Electronic Parts Applications Market Analysis (2007-2017) by Geographic Region – United States, Japan, Europe, Asia-Pacific and Rest of World in USD Million

Chart 9: Glance at 2007, 2012 and 2017 Global Monolithic Ceramics for Electrical & Electronic Parts Applications Market Share (%) by Geographic Region – United States, Japan, Europe, Asia-Pacific and Rest of World

Chart 10: Global Monolithic Ceramics for Catalyst Supports Applications Market Analysis (2007-2017) by Geographic Region – United States, Japan, Europe, Asia-Pacific and Rest of World in USD Million

Chart 11: Glance at 2007, 2012 and 2017 Global Monolithic Ceramics for Catalyst Supports Applications Market Share (%) by Geographic Region – United States, Japan, Europe, Asia-Pacific and Rest of World

Chart 12: Global Monolithic Ceramics for Filters Devices Market Analysis (2007-2017) by Geographic Region – United States, Japan, Europe, Asia-Pacific and Rest of World in USD Million

Chart 13: Glance at 2007, 2012 and 2017 Global Monolithic Ceramics for Filters Devices Applications Market Share (%) by Geographic Region – United States, Japan, Europe, Asia-Pacific and Rest of World

Chart 14: Global Monolithic Ceramics for Wear Parts Applications Market Analysis (2007-2017) by Geographic Region – United States, Japan, Europe, Asia-Pacific and Rest of World in USD Million

Chart 15: Glance at 2007, 2012 and 2017 Global Monolithic Ceramics for Wear Parts Applications Market Share (%) by Geographic Region – United States, Japan, Europe, Asia-Pacific and Rest of World

Chart 16: Global Monolithic Ceramics for Other Applications Market Analysis (2007-2017) by Geographic Region – United States, Japan, Europe, Asia-Pacific and Rest of World in USD Million

Chart 17: Glance at 2007, 2012 and 2017 Global Monolithic Ceramics for Other Applications Market Share (%) by Geographic Region – United States, Japan, Europe, Asia-Pacific and Rest of World

2. REGIONAL MARKET PERSPECTIVE

Chart 18: The Projection of Largest Regions in terms of Market Growth for Monolithic Ceramics by Geography – Asia-Pacific, United States, Japan and Europe

Chart 19: Global Monolithic Ceramics Market Analysis (2007-2017) by Geographic Region – United States, Japan, Europe, Asia-Pacific and Rest of World in USD Million

Chart 20: Glance at 2007, 2012 and 2017 Global Monolithic Ceramics Market Share (%) by Geographic Region – United States, Japan, Europe, Asia-Pacific and Rest of World

REGIONAL MARKET OVERVIEW

THE UNITED STATES

Chart 21: United States Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 22: Glance at 2007, 2012 and 2017 United States Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

JAPAN

Chart 23: Japanese Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 24: Glance at 2007, 2012 and 2017 Japanese Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

EUROPE

Chart 25: European Monolithic Ceramics Market Analysis (2007-2017) by Geographic Region – France, Germany, Italy, United Kingdom, Spain, Russia and Rest of Europe in USD Million

Chart 26: Glance at 2007, 2012 and 2017 European Monolithic Ceramics Market Share (%) by Geographic Region – France, Germany, Italy, United Kingdom, Spain, Russia and Rest of Europe

Chart 27: European Monolithic Ceramics Market Analysis (2007-2017) by Application

Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 28: Glance at 2007, 2012 and 2017 European Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

Chart 29: European Monolithic Ceramics for Electrical & Electronic Parts Applications Market Analysis (2007-2017) by Geographic Region – France, Germany, Italy, United Kingdom, Spain, Russia and Rest of Europe in USD Million

Chart 30: Glance at 2007, 2012 and 2017 European Monolithic Ceramics for Electrical & Electronic Parts Applications Market Share (%) by Geographic Region – France, Germany, Italy, United Kingdom, Spain, Russia and Rest of Europe

Chart 31: European Monolithic Ceramics for Catalyst Supports Applications Market Analysis (2007-2017) by Geographic Region – France, Germany, Italy, United Kingdom, Spain, Russia and Rest of Europe in USD Million

Chart 32: Glance at 2007, 2012 and 2017 European Monolithic Ceramics for Catalyst Supports Applications Market Share (%) by Geographic Region – France, Germany, Italy, United Kingdom, Spain, Russia and Rest of Europe

Chart 33: European Monolithic Ceramics for Filters Devices Market Analysis (2007-2017) by Geographic Region – France, Germany, Italy, United Kingdom, Spain, Russia and Rest of Europe in USD Million

Chart 34: Glance at 2007, 2012 and 2017 European Monolithic Ceramics for Filters Devices Applications Market Share (%) by Geographic Region – France, Germany, Italy, United Kingdom, Spain, Russia and Rest of Europe

Chart 35: European Monolithic Ceramics for Wear Parts Applications Market Analysis (2007-2017) by Geographic Region – France, Germany, Italy, United Kingdom, Spain, Russia and Rest of Europe in USD Million

Chart 36: Glance at 2007, 2012 and 2017 European Monolithic Ceramics for Wear Parts Applications Market Share (%) by Geographic Region – France, Germany, Italy, United Kingdom, Spain, Russia and Rest of Europe

Chart 37: European Monolithic Ceramics for Other Applications Market Analysis (2007-2017) by Geographic Region – France, Germany, Italy, United Kingdom, Spain, Russia and Rest of Europe in USD Million

Chart 38: Glance at 2007, 2012 and 2017 European Monolithic Ceramics for Other Applications Market Share (%) by Geographic Region – France, Germany, Italy, United Kingdom, Spain, Russia and Rest of Europe

France

Chart 39: French Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 40: Glance at 2007, 2012 and 2017 French Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

Germany

Chart 41: German Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 42: Glance at 2007, 2012 and 2017 German Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

Italy

Chart 43: Italian Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 44: Glance at 2007, 2012 and 2017 Italian Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

Russia

Chart 45: Russian Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 46: Glance at 2007, 2012 and 2017 Russian Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

Spain

Chart 47: Spanish Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 48: Glance at 2007, 2012 and 2017 Spanish Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

The United Kingdom

Chart 49: United Kingdom Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 50: Glance at 2007, 2012 and 2017 United Kingdom Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

Rest of Europe

Chart 51: Rest of Europe Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 52: Glance at 2007, 2012 and 2017 Rest of Europe Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

2.4 ASIA-PACIFIC

Chart 53: Asia-Pacific Monolithic Ceramics Market Analysis (2007-2017) by Geographic Region – China, India, South Korea, Taiwan and Rest of Asia-Pacific in USD Million

Chart 54: Glance at 2007, 2012 and 2017 Asia-Pacific Monolithic Ceramics Market Share (%) by Geographic Region – China, India, South Korea, Taiwan and Rest of Asia-Pacific

Chart 55: Asia-Pacific Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 56: Glance at 2007, 2012 and 2017 Asia-Pacific Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

Chart 57: Asia-Pacific Monolithic Ceramics for Electrical & Electronic Parts Applications Market Analysis (2007-2017) by Geographic Region – China, India, South Korea, Taiwan and Rest of Asia-Pacific in USD Million

Chart 58: Glance at 2007, 2012 and 2017 Asia-Pacific Monolithic Ceramics for Electrical & Electronic Parts Applications Market Share (%) by Geographic Region – China, India, South Korea, Taiwan and Rest of Asia-Pacific

Chart 59: Asia-Pacific Monolithic Ceramics for Catalyst Supports Applications Market Analysis (2007-2017) by Geographic Region – China, India, South Korea, Taiwan and Rest of Asia-Pacific in USD Million

Chart 60: Glance at 2007, 2012 and 2017 Asia-Pacific Monolithic Ceramics for Catalyst Supports Applications Market Share (%) by Geographic Region – China, India, South Korea, Taiwan and Rest of Asia-Pacific

Chart 61: Asia-Pacific Monolithic Ceramics for Filters Devices Market Analysis (2007-2017) by Geographic Region – China, India, South Korea, Taiwan and Rest of Asia-Pacific in USD Million

Chart 62: Glance at 2007, 2012 and 2017 Asia-Pacific Monolithic Ceramics for Filters Devices Applications Market Share (%) by Geographic Region – China, India, South Korea, Taiwan and Rest of Asia-Pacific

Chart 63: Asia-Pacific Monolithic Ceramics for Wear Parts Applications Market Analysis (2007-2017) by Geographic Region – China, India, South Korea, Taiwan and Rest of Asia-Pacific in USD Million

Chart 64: Glance at 2007, 2012 and 2017 Asia-Pacific Monolithic Ceramics for Wear Parts Applications Market Share (%) by Geographic Region – China, India, South Korea, Taiwan and Rest of Asia-Pacific

Chart 65: Asia-Pacific Monolithic Ceramics for Other Applications Market Analysis (2007-2017) by Geographic Region – China, India, South Korea, Taiwan and Rest of Asia-Pacific in USD Million

Chart 66: Glance at 2007, 2012 and 2017 Asia-Pacific Monolithic Ceramics for Other Applications Market Share (%) by Geographic Region – China, India, South Korea, Taiwan and Rest of Asia-Pacific

China

Chart 67: Chinese Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 68: Glance at 2007, 2012 and 2017 Chinese Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

India

Chart 69: Indian Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 70: Glance at 2007, 2012 and 2017 Indian Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

South Korea

Chart 71: South Korean Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 72: Glance at 2007, 2012 and 2017 South Korean Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

Taiwan

Chart 73: Taiwanese Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 74: Glance at 2007, 2012 and 2017 Taiwanese Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

Rest of Asia-Pacific

Chart 75: Rest of Asia-Pacific Monolithic Ceramics Market Analysis (2007-2017) by

Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 76: Glance at 2007, 2012 and 2017 Rest of Asia-Pacific Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

2.5 REST OF WORLD

Chart 77: Rest of World Monolithic Ceramics Market Analysis (2007-2017) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications in USD Million

Chart 78: Glance at 2007, 2012 and 2017 Rest of World Monolithic Ceramics Market Share (%) by Application Area – Electrical & Electronic Parts, Catalyst Supports, Filters, Wear Parts and Other Applications

I would like to order

Product name: Monolithic Ceramics Applications - A Global Market Overview

Product link: <https://marketpublishers.com/r/M5E9F346881EN.html>

Price: US\$ 3,960.00 (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/M5E9F346881EN.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