

Advanced Ceramics: Market Research Report

https://marketpublishers.com/r/A2223927674EN.html Date: December 2018 Pages: 365 Price: US\$ 5,800.00 (Single User License) ID: A2223927674EN

Abstracts

This report analyzes the worldwide markets for Advanced Ceramics in US\$ Million by the following Product Segments and End-Use Sectors: Product Segments - Monolithic Ceramics, Ceramic Coatings, and Ceramic Matrix Composites; End-Use Sectors - Chemical, Electrical & Electronics, Machinery, Transportation, and Others. The report provides separate comprehensive analytics for the US, Canada, Europe, Asia-Pacific, Middle East & Africa and Latin America.

Annual estimates and forecasts are provided for the period 2016 through 2024. Also, a five-year historic analysis is provided for these markets. Market data and analytics are derived from primary and secondary research.

Company profiles are primarily based on public domain information including company URLs.

The report profiles 114 companies including many key and niche players such as -

Applied Ceramics, Inc.

Ceradyne, Inc.

CeramTec TopCo GmbH

COI Ceramics, Inc.

CoorsTek, Inc.

Kyocera Corporation



Contents

1. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations Data Interpretation & Reporting Level Quantitative Techniques & Analytics Product Definitions and Scope of Study Advanced Ceramics Product Segments Monolithic Ceramics Ceramic Coatings Ceramic Matrix Composites End-Use Sectors Electrical and Electronics Transportation Industrial Machinery Chemicals Other Markets

2. INDUSTRY OVERVIEW

Advanced Ceramics – Engineering Current & Future Analysis Developed Markets – Traditional Revenue Contributors Emerging Markets Offer Lucrative Opportunities Monolithic Ceramics Dominates the Market Demand for Ceramic Coatings on Rise Ceramic Matrix Composites (CMCs) – The Fastest Growing Segment Electrical & Electronics – A Major End-use market

3. MARKET TRENDS AND ISSUES

Industry Focus Grows on Innovative Material Manufacturing and Processing Material Technology Advancements Drive Adoption of Electronic Ceramics Growing Need for High Performance Materials for Roll Out of 5G Networks Raises Opportunities for Advanced Ceramics



Table 1. Global Number of 5G Subscriptions (2020-2025) (in Millions) (includescorresponding Graph/Chart)

Table 2. Global Number of 5G Capex Spending (2018-2022) (in US\$ Million) (includescorresponding Graph/Chart)

Internet of Things and Artificial Technology Domains Create Significant Opportunities

Table 3. Global Installed Base of Internet of Thing (IoT) Connected Devices(2016-2024) (in Billion Units) (includes corresponding Graph/Chart)

Wearables – A Promising Market with Strong Potential Advanced Ceramics Evolve as Suitable Materials for Sensor Components Electronic Devices Continue to Drive Demand

Table 4. Global Shipments of Electronic Devices (in Million Units) by Type for the Years2018 through 2024 (includes corresponding Graph/Chart)

Table 5. Global Semiconductor Industry CAPEX (in US\$ Billion) for the Years 2016,2018 & 2022 (includes corresponding Graph/Chart)

Piezo Ceramic Components Drive Opportunities Renewable Energy Sector Furthers Demand for Advanced Ceramics

Table 6. World Renewable Energy Production (In Billion Kilowatt Hours) by EnergySource for the Years 2017, 2020, 2030 and 2040 (includes corresponding Graph/Chart)

Fuel Cells and Batteries Promise a Huge Potential SOFCs – An Emerging Growth Market Superconductors Drive New Opportunities for Advanced Ceramics Ceramic Matrix Composites – A Growing Area of R&D Applications on Rise in Aerospace Industry Medical Applications Emerge as a Major End-Use Area for Advanced Ceramics

Table 7. Global Medical Ceramics Market (2018E): Percentage Breakdown of



Revenues by Application (includes corresponding Graph/Chart)

New Frontiers in Neuromodulation Silicon Nitride Ceramics in Orthopedic Surgery Aging Population – An Indirect Growth Driver

Table 8. Elderly Population (60+ Years) as a Percentage of the Total Population: 2012& 2050 (includes corresponding Graph/Chart)

Advanced Ceramics Gain Increased Space in Dentistry Advanced Ceramics Increase Share in Automobiles

Table 9. World Passenger Car Production in 2010, 2016, 2020, & 2024 (in million Units)(includes corresponding Graph/Chart)

e-Mobility Drives Consumption of Advanced Ceramics Rise in Demand for Electric Vehicles (EVs) and Hybrid Vehicles to Drive Momentum

Table 10. Global Electric Vehicles Sales in Million Units (2014-2024) (includescorresponding Graph/Chart)

4. MACRO GROWTH DRIVERS

Global Economy and Growth Prospects

Table 11. World Real GDP Growth Rates in % for the Years 2017, 2018 & 2019 byCountry (includes corresponding Graph/Chart)

Global PMI Remains Sluggish

Table 12. Global Manufacturing PMI: 2015 to 2018 (includes correspondingGraph/Chart)

Table 13. Global Purchasing Managers Index (PMI): 2018 by Month (includes



corresponding Graph/Chart)

5. PRODUCT OVERVIEW

Ceramics

- Traditional Ceramics
- Advanced Ceramics
- Manufacture of Advanced Ceramics
- A Segmental Analysis
- Product Segments
- Monolithic Ceramics
- Ceramic Coatings
- Ceramic Matrix Composites
- End-Use Markets
- Electronic Components Market
- **Electrical Parts Market**
- Transportation
- Industrial Machinery
- Chemicals
- Other Markets

Important End-Use Markets and Key Application Areas of Advanced Ceramics

6. COMPETITIVE LANDSCAPE

Competition 6.1 Focus on Select Global Players Applied Ceramics, Inc. (USA) Ceradyne, Inc. (USA) CeramTec TopCo GmbH (Germany) COI Ceramics, Inc. (USA) CoorsTek, Inc. (USA) Kyocera Corporation (Japan) Materion Corporation (USA) Momentive Performance Materials, Inc. (USA) Morgan Advanced Materials (UK) Murata Manufacturing Co. Ltd. (Japan) NGK Insulators Ltd. (Japan) Rauschert Steinbach GmbH (Germany) Compagnie De Saint-Gobain (France)



6.2 Product Launches/Developments BAF Industries Introduces Synergy Ceramic Coatings Axalta Launches Eleglas Glass, Ceramic Coatings Morgan Advanced Material Develops Ceramic Reflector for High Performance Laser System Materion Corporation introduces Thermalox V Advanced Ceramic Materion Adds Durox 98 to its Alumina Ceramic Material Range Materion Adds Durox 98 to its Alumina Ceramic Material Range 6.3 Recent Industry Activity Wuxi Murata Electronics Sets up Facility for Multilayer Ceramic Capacitors Production Safran Ceramics Opens New Research Center for Ceramic Matrix Composites NGK Develops Chip-type Ceramic Secondary Battery Artemis Capital Acquires Superior Technical Ceramics Izumo Murata Commences Construction of New Manufcaturing Facility for Ceramic Multilayer Capacitors Höganäs Acquires the H. C. Starck Group's Surface Technology & Ceramic Powder division Fukui Murata Manufacturing to Start New Production Plant for Multilayer Ceramic Capacitor GE Aviation to Expand Production of Ceramic Matrix Composites for Jet Engines BC Partners Acquire Ceramtec NGK Insulators to Set up Production Site for Ceramics Oerlikon to Acquire Scoperta Kyocera Expands Industrial Ceramic Manufacturing Operations in the US NGK Insulators Commence Operations at the Ishikawa Plant CeramTec to Acquire UK Electro-Ceramics from Morgan Advanced Materials

7. GLOBAL MARKET PERSPECTIVE

Table 14. World Recent Past, Current & Future Analysis for Advanced Ceramics byGeographic Region - US, Canada, Europe, Asia-Pacific, Middle East & Africa and LatinAmerica Markets Independently Analyzed with Annual Sales in US\$ Million for Years2016 through 2024 (includes corresponding Graph/Chart)

Table 15. World Historic Review for Advanced Ceramics by Geographic Region - US,Canada, Europe, Asia-Pacific, Middle East & Africa and Latin America MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)



Table 16. World 14-Year Perspective for Advanced Ceramics by Geographic Region -Percentage Breakdown of Value Sales for US, Canada, Europe, Asia-Pacific, MiddleEast & Africa and Latin America Markets for Years 2011, 2018 and 2024 (includescorresponding Graph/Chart)

Global Advanced Ceramics Market by Product Segment

Table 17. World Recent Past, Current & Future Analysis for Matrix Composites byGeographic Region - US, Canada, Europe, Asia-Pacific, Middle East & Africa and LatinAmerica Markets Independently Analyzed with Annual Sales in US\$ Million for Years2016 through 2024 (includes corresponding Graph/Chart)

Table 18. World Historic Review for Matrix Composites by Geographic Region - US,Canada, Europe, Asia-Pacific, Middle East & Africa and Latin America MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 19. World 14-Year Perspective for Matrix Composites by Geographic Region -Percentage Breakdown of Value Sales for US, Canada, Europe, Asia-Pacific, MiddleEast & Africa and Latin America Markets for Years 2011, 2018 and 2024 (includescorresponding Graph/Chart)

Table 20. World Recent Past, Current & Future Analysis for Coatings by GeographicRegion - US, Canada, Europe, Asia-Pacific, Middle East & Africa and Latin AmericaMarkets Independently Analyzed with Annual Sales in US\$ Million for Years 2016through 2024 (includes corresponding Graph/Chart)

Table 21. World Historic Review for Coatings by Geographic Region - US, Canada,Europe, Asia-Pacific, Middle East & Africa and Latin America Markets IndependentlyAnalyzed with Annual Sales in US\$ Million for Years 2011 through 2015 (includescorresponding Graph/Chart)

Table 22. World 14-Year Perspective for Coatings by Geographic Region - Percentage Breakdown of Value Sales for US, Canada, Europe, Asia-Pacific, Middle East & Africa and Latin America Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Table 23. World Recent Past, Current & Future Analysis for Monolithic Ceramics by



Geographic Region - US, Canada, Europe, Asia-Pacific, Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 24. World Historic Review for Monolithic Ceramics by Geographic Region - US,Canada, Europe, Asia-Pacific, Middle East & Africa and Latin America MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 25. World 14-Year Perspective for Monolithic Ceramics by Geographic Region -Percentage Breakdown of Value Sales for US, Canada, Europe, Asia-Pacific, MiddleEast & Africa and Latin America Markets for Years 2011, 2018 and 2024 (includescorresponding Graph/Chart)

Global Advanced Ceramics Market by End-use Sector

Table 26. World Recent Past, Current & Future Analysis for Chemical End-Use Sector by Geographic Region - US, Canada, Europe, Asia-Pacific, Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 27. World Historic Review for Chemical End-Use Sector by Geographic Region -US, Canada, Europe, Asia-Pacific, Middle East & Africa and Latin America MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 28. World 14-Year Perspective for Chemical End-Use Sector by GeographicRegion - Percentage Breakdown of Value Sales for US, Canada, Europe, Asia-Pacific,Middle East & Africa and Latin America Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

Table 29. World Recent Past, Current & Future Analysis for Electrical & Electronics End-Use Sector by Geographic Region - US, Canada, Europe, Asia-Pacific, Middle East &Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 30. World Historic Review for Electrical & Electronics End-Use Sector by

 Geographic Region - US, Canada, Europe, Asia-Pacific, Middle East & Africa and Latin



America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 31. World 14-Year Perspective for Electrical & Electronics End-Use Sector by Geographic Region - Percentage Breakdown of Value Sales for US, Canada, Europe, Asia-Pacific, Middle East & Africa and Latin America Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Table 32. World Recent Past, Current & Future Analysis for Machinery End-Use Sector by Geographic Region - US, Canada, Europe, Asia-Pacific, Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 33. World Historic Review for Machinery End-Use Sector by Geographic Region -US, Canada, Europe, Asia-Pacific, Middle East & Africa and Latin America MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 34. World 14-Year Perspective for Machinery End-Use Sector by GeographicRegion - Percentage Breakdown of Value Sales for US, Canada, Europe, Asia-Pacific,Middle East & Africa and Latin America Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

Table 35. World Recent Past, Current & Future Analysis for Transportation End-Use Sector by Geographic Region - US, Canada, Europe, Asia-Pacific, Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 36. World Historic Review for Transportation End-Use Sector by GeographicRegion - US, Canada, Europe, Asia-Pacific, Middle East & Africa and Latin AmericaMarkets Independently Analyzed with Annual Sales in US\$ Million for Years 2011through 2015 (includes corresponding Graph/Chart)

Table 37. World 14-Year Perspective for Transportation End-Use Sector by GeographicRegion - Percentage Breakdown of Value Sales for US, Canada, Europe, Asia-Pacific,Middle East & Africa and Latin America Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

Table 38. World Recent Past, Current & Future Analysis for Others End-Use Sector by



Geographic Region - US, Canada, Europe, Asia-Pacific, Middle East & Africa and Latin America Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 39. World Historic Review for Others End-Use Sector by Geographic Region -US, Canada, Europe, Asia-Pacific, Middle East & Africa and Latin America MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 40. World 14-Year Perspective for Others End-Use Sector by Geographic Region- Percentage Breakdown of Value Sales for US, Canada, Europe, Asia-Pacific, MiddleEast & Africa and Latin America Markets for Years 2011, 2018 and 2024 (includescorresponding Graph/Chart)

8. REGIONAL MARKET PERSPECTIVE

8.1 The United StatesA. Market AnalysisCurrent & Future AnalysisTransportation Sector to Drive GainsBioceramics Set to Witness Strong GrowthDemand for Technical Ceramic Proppants on Rise

Table 41. US Oil and Gas Production (2016-2019) (In Million Barrels per day) (includescorresponding Graph/Chart)

Medical Market – A High Potential End-Use Segment Key Statistical Findings

Table 42. Advanced Ceramics Market in the US (2018E): Percentage Share Breakdownof Demand by Raw Material Type (includes corresponding Graph/Chart)

Table 43. US Market for Ferrite Ceramics (2016): Percentage Share Breakdown ofDollar Sales by End-Use Segment (includes corresponding Graph/Chart)

Table 44. US Zirconate Ceramics Market (2016): Percentage Breakdown of ValueDemand by End-Use Application (includes corresponding Graph/Chart)



Table 45. Advanced Ceramics in the Industrial Machinery Market in the US (2016):Percentage Share Breakdown of Dollar Sales by Application (includes correspondingGraph/Chart)

Competition

Table 46. US Advanced Ceramics Market (2018E): Percentage Breakdown ofRevenues by Company (includes corresponding Graph/Chart)

B. Market Analytics Analytics by Product Segment

Table 47. The US Recent Past, Current & Future Analysis for Advanced Ceramics byProduct Segment - Matrix Composites, Coatings and Monolithic Ceramics MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024(includes corresponding Graph/Chart)

Table 48. The US Historic Review for Advanced Ceramics by Product Segment - MatrixComposites, Coatings and Monolithic Ceramics Markets Independently Analyzed withAnnual Sales in US\$ Million for Years 2011 through 2015 (includes correspondingGraph/Chart)

Table 49. The US 14-Year Perspective for Advanced Ceramics by Product Segment -Percentage Breakdown of Value Sales for Matrix Composites, Coatings and MonolithicCeramics Markets for Years 2011, 2018 and 2024 (includes correspondingGraph/Chart)

Analytics by End-use Sector

Table 50. The US Recent Past, Current & Future Analysis for Advanced Ceramics byEnd-Use Sector - Chemical, Electrical & Electronics, Machinery, Transportation andOthers Markets Independently Analyzed with Annual Sales in US\$ Million for Years2016 through 2024 (includes corresponding Graph/Chart)

Table 51. The US Historic Review for Advanced Ceramics by End-Use Sector -Chemical, Electrical & Electronics, Machinery, Transportation and Others Markets



Independently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 52. The US 14-Year Perspective for Advanced Ceramics by End-Use Sector -Percentage Breakdown of Value Sales for Chemical, Electrical & Electronics,Machinery, Transportation and Others Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

8.2 CanadaMarket AnalysisAnalytics by Product Segment

Table 53. Canadian Recent Past, Current & Future Analysis for Advanced Ceramics byProduct Segment - Matrix Composites, Coatings and Monolithic Ceramics MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024(includes corresponding Graph/Chart)

Table 54. Canadian Historic Review for Advanced Ceramics by Product Segment -Matrix Composites, Coatings and Monolithic Ceramics Markets Independently Analyzedwith Annual Sales in US\$ Million for Years 2011 through 2015 (includes correspondingGraph/Chart)

Table 55. Canadian 14-Year Perspective for Advanced Ceramics by Product Segment -Percentage Breakdown of Value Sales for Matrix Composites, Coatings and MonolithicCeramics Markets for Years 2011, 2018 and 2024 (includes correspondingGraph/Chart)

Analytics by End-use Sector

Table 56. Canadian Recent Past, Current & Future Analysis for Advanced Ceramics byEnd-Use Sector - Chemical, Electrical & Electronics, Machinery, Transportation andOthers Markets Independently Analyzed with Annual Sales in US\$ Million for Years2016 through 2024 (includes corresponding Graph/Chart)

Table 57. Canadian Historic Review for Advanced Ceramics by End-Use Sector -Chemical, Electrical & Electronics, Machinery, Transportation and Others MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015.



(includes corresponding Graph/Chart)

Table 58. Canadian 14-Year Perspective for Advanced Ceramics by End-Use Sector -Percentage Breakdown of Value Sales for Chemical, Electrical & Electronics,Machinery, Transportation and Others Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

8.3 EuropeA. Market AnalysisCurrent & Future AnalysisMarket OverviewB. Market AnalyticsAnalytics by Geographic Region

Table 59. European Recent Past, Current & Future Analysis for Advanced Ceramics byGeographic Region - France, Germany, Italy, UK, Spain, Russia and Rest of EuropeMarkets Independently Analyzed with Annual Sales in US\$ Million for Years 2016through 2024 (includes corresponding Graph/Chart)

Table 60. European Historic Review for Advanced Ceramics by Geographic Region -France, Germany, Italy, UK, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 61. European 14-Year Perspective for Advanced Ceramics by GeographicRegion - Percentage Breakdown of Value Sales for France, Germany, Italy, UK, Spain,Russia and Rest of Europe Markets for Years 2011, 2018 and 2024 (includescorresponding Graph/Chart)

Analytics by Product Segment

Table 62. European Recent Past, Current & Future Analysis for Advanced Ceramics byProduct Segment - Matrix Composites, Coatings and Monolithic Ceramics MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024(includes corresponding Graph/Chart)

Table 63. European Historic Review for Advanced Ceramics by Product Segment -



Matrix Composites, Coatings and Monolithic Ceramics Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 64. European 14-Year Perspective for Advanced Ceramics by Product Segment -Percentage Breakdown of Value Sales for Matrix Composites, Coatings and MonolithicCeramics Markets for Years 2011, 2018 and 2024 (includes correspondingGraph/Chart)

Analytics by End-use Sector

Table 65. European Recent Past, Current & Future Analysis for Advanced Ceramics byEnd-Use Sector - Chemical, Electrical & Electronics, Machinery, Transportation andOthers Markets Independently Analyzed with Annual Sales in US\$ Million for Years2016 through 2024 (includes corresponding Graph/Chart)

Table 66. European Historic Review for Advanced Ceramics by End-Use Sector -Chemical, Electrical & Electronics, Machinery, Transportation and Others MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 67. European 14-Year Perspective for Advanced Ceramics by End-Use Sector -Percentage Breakdown of Value Sales for Chemical, Electrical & Electronics,Machinery, Transportation and Others Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

8.3.1 France Market Analysis Analytics by Product Segment

Table 68. French Recent Past, Current & Future Analysis for Advanced Ceramics byProduct Segment - Matrix Composites, Coatings and Monolithic Ceramics MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024(includes corresponding Graph/Chart)

Table 69. French Historic Review for Advanced Ceramics by Product Segment - Matrix

 Composites, Coatings and Monolithic Ceramics Markets Independently Analyzed with



Annual Sales in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 70. French 14-Year Perspective for Advanced Ceramics by Product Segment -Percentage Breakdown of Value Sales for Matrix Composites, Coatings and MonolithicCeramics Markets for Years 2011, 2018 and 2024 (includes correspondingGraph/Chart)

Analytics by End-use Sector

Table 71. French Recent Past, Current & Future Analysis for Advanced Ceramics byEnd-Use Sector - Chemical, Electrical & Electronics, Machinery, Transportation andOthers Markets Independently Analyzed with Annual Sales in US\$ Million for Years2016 through 2024 (includes corresponding Graph/Chart)

Table 72. French Historic Review for Advanced Ceramics by End-Use Sector -Chemical, Electrical & Electronics, Machinery, Transportation and Others MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 73. French 14-Year Perspective for Advanced Ceramics by End-Use Sector -Percentage Breakdown of Value Sales for Chemical, Electrical & Electronics,Machinery, Transportation and Others Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

8.3.2 Germany Market Analysis Analytics by Product Segment

Table 74. German Recent Past, Current & Future Analysis for Advanced Ceramics byProduct Segment - Matrix Composites, Coatings and Monolithic Ceramics MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024(includes corresponding Graph/Chart)

Table 75. German Historic Review for Advanced Ceramics by Product Segment - MatrixComposites, Coatings and Monolithic Ceramics Markets Independently Analyzed withAnnual Sales in US\$ Million for Years 2011 through 2015 (includes corresponding



Graph/Chart)

Table 76. German 14-Year Perspective for Advanced Ceramics by Product Segment -Percentage Breakdown of Value Sales for Matrix Composites, Coatings and MonolithicCeramics Markets for Years 2011, 2018 and 2024 (includes correspondingGraph/Chart)

Analytics by End-use Sector

Table 77. German Recent Past, Current & Future Analysis for Advanced Ceramics byEnd-Use Sector - Chemical, Electrical & Electronics, Machinery, Transportation andOthers Markets Independently Analyzed with Annual Sales in US\$ Million for Years2016 through 2024 (includes corresponding Graph/Chart)

Table 78. German Historic Review for Advanced Ceramics by End-Use Sector -Chemical, Electrical & Electronics, Machinery, Transportation and Others MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 79. German 14-Year Perspective for Advanced Ceramics by End-Use Sector -Percentage Breakdown of Value Sales for Chemical, Electrical & Electronics,Machinery, Transportation and Others Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

8.3.3 Italy Market Analysis Analytics by Product Segment

Table 80. Italian Recent Past, Current & Future Analysis for Advanced Ceramics byProduct Segment - Matrix Composites, Coatings and Monolithic Ceramics MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024(includes corresponding Graph/Chart)

Table 81. Italian Historic Review for Advanced Ceramics by Product Segment - MatrixComposites, Coatings and Monolithic Ceramics Markets Independently Analyzed withAnnual Sales in US\$ Million for Years 2011 through 2015 (includes correspondingGraph/Chart)



Table 82. Italian 14-Year Perspective for Advanced Ceramics by Product Segment -Percentage Breakdown of Value Sales for Matrix Composites, Coatings and MonolithicCeramics Markets for Years 2011, 2018 and 2024 (includes correspondingGraph/Chart)

Analytics by End-use Sector

Table 83. Italian Recent Past, Current & Future Analysis for Advanced Ceramics byEnd-Use Sector - Chemical, Electrical & Electronics, Machinery, Transportation andOthers Markets Independently Analyzed with Annual Sales in US\$ Million for Years2016 through 2024 (includes corresponding Graph/Chart)

Table 84. Italian Historic Review for Advanced Ceramics by End-Use Sector -Chemical, Electrical & Electronics, Machinery, Transportation and Others MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 85. Italian 14-Year Perspective for Advanced Ceramics by End-Use Sector -Percentage Breakdown of Value Sales for Chemical, Electrical & Electronics,Machinery, Transportation and Others Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

8.3.4 The United Kingdom Market Analysis Analytics by Product Segment

Table 86. The UK Recent Past, Current & Future Analysis for Advanced Ceramics byProduct Segment - Matrix Composites, Coatings and Monolithic Ceramics MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024(includes corresponding Graph/Chart)

Table 87. The UK Historic Review for Advanced Ceramics by Product Segment - MatrixComposites, Coatings and Monolithic Ceramics Markets Independently Analyzed withAnnual Sales in US\$ Million for Years 2011 through 2015 (includes correspondingGraph/Chart)

Table 88. The UK 14-Year Perspective for Advanced Ceramics by Product Segment -



Percentage Breakdown of Value Sales for Matrix Composites, Coatings and Monolithic Ceramics Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Analytics by End-use Sector

Table 89. The UK Recent Past, Current & Future Analysis for Advanced Ceramics byEnd-Use Sector - Chemical, Electrical & Electronics, Machinery, Transportation andOthers Markets Independently Analyzed with Annual Sales in US\$ Million for Years2016 through 2024 (includes corresponding Graph/Chart)

Table 90. The UK Historic Review for Advanced Ceramics by End-Use Sector -Chemical, Electrical & Electronics, Machinery, Transportation and Others MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 91. The UK 14-Year Perspective for Advanced Ceramics by End-Use Sector -Percentage Breakdown of Value Sales for Chemical, Electrical & Electronics,Machinery, Transportation and Others Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

8.3.5 Spain Market Analysis Analytics by Product Segment

Table 92. Spanish Recent Past, Current & Future Analysis for Advanced Ceramics byProduct Segment - Matrix Composites, Coatings and Monolithic Ceramics MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024(includes corresponding Graph/Chart)

Table 93. Spanish Historic Review for Advanced Ceramics by Product Segment - MatrixComposites, Coatings and Monolithic Ceramics Markets Independently Analyzed withAnnual Sales in US\$ Million for Years 2011 through 2015 (includes correspondingGraph/Chart)

Table 94. Spanish 14-Year Perspective for Advanced Ceramics by Product Segment

 Percentage Breakdown of Value Sales for Matrix Composites, Coatings and Monolithic



Ceramics Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Analytics by End-use Sector

Table 95. Spanish Recent Past, Current & Future Analysis for Advanced Ceramics byEnd-Use Sector - Chemical, Electrical & Electronics, Machinery, Transportation andOthers Markets Independently Analyzed with Annual Sales in US\$ Million for Years2016 through 2024 (includes corresponding Graph/Chart)

Table 96. Spanish Historic Review for Advanced Ceramics by End-Use Sector -Chemical, Electrical & Electronics, Machinery, Transportation and Others MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 97. Spanish 14-Year Perspective for Advanced Ceramics by End-Use Sector -Percentage Breakdown of Value Sales for Chemical, Electrical & Electronics,Machinery, Transportation and Others Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

8.3.6 Russia Market Analysis Analytics by Product Segment

Table 98. Russian Recent Past, Current & Future Analysis for Advanced Ceramics byProduct Segment - Matrix Composites, Coatings and Monolithic Ceramics MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024(includes corresponding Graph/Chart)

Table 99. Russian Historic Review for Advanced Ceramics by Product Segment - MatrixComposites, Coatings and Monolithic Ceramics Markets Independently Analyzed withAnnual Sales in US\$ Million for Years 2011 through 2015 (includes correspondingGraph/Chart)

Table 100. Russian 14-Year Perspective for Advanced Ceramics by Product Segment -Percentage Breakdown of Value Sales for Matrix Composites, Coatings and MonolithicCeramics Markets for Years 2011, 2018 and 2024 (includes corresponding



Graph/Chart)

Analytics by End-use Sector

Table 101. Russian Recent Past, Current & Future Analysis for Advanced Ceramics byEnd-Use Sector - Chemical, Electrical & Electronics, Machinery, Transportation andOthers Markets Independently Analyzed with Annual Sales in US\$ Million for Years2016 through 2024 (includes corresponding Graph/Chart)

Table 102. Russian Historic Review for Advanced Ceramics by End-Use Sector -Chemical, Electrical & Electronics, Machinery, Transportation and Others MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 103. Russian 14-Year Perspective for Advanced Ceramics by End-Use Sector -Percentage Breakdown of Value Sales for Chemical, Electrical & Electronics,Machinery, Transportation and Others Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

8.3.7 Rest of Europe Market Analysis Analytics by Product Segment

Table 104. Rest of Europe Recent Past, Current & Future Analysis for AdvancedCeramics by Product Segment - Matrix Composites, Coatings and Monolithic CeramicsMarkets Independently Analyzed with Annual Sales in US\$ Million for Years 2016through 2024 (includes corresponding Graph/Chart)

Table 105. Rest of Europe Historic Review for Advanced Ceramics by Product Segment- Matrix Composites, Coatings and Monolithic Ceramics Markets IndependentlyAnalyzed with Annual Sales in US\$ Million for Years 2011 through 2015 (includescorresponding Graph/Chart)

Table 106. Rest of Europe 14-Year Perspective for Advanced Ceramics by ProductSegment - Percentage Breakdown of Value Sales for Matrix Composites, Coatings andMonolithic Ceramics Markets for Years 2011, 2018 and 2024 (includes correspondingGraph/Chart)



Analytics by End-use Sector

Table 107. Rest of Europe Recent Past, Current & Future Analysis for AdvancedCeramics by End-Use Sector - Chemical, Electrical & Electronics, Machinery,Transportation and Others Markets Independently Analyzed with Annual Sales in US\$Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 108. Rest of Europe Historic Review for Advanced Ceramics by End-Use Sector -Chemical, Electrical & Electronics, Machinery, Transportation and Others MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 109. Rest of Europe 14-Year Perspective for Advanced Ceramics by End-UseSector - Percentage Breakdown of Value Sales for Chemical, Electrical & Electronics,Machinery, Transportation and Others Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

8.4 Asia-Pacific
A. Market Analysis
Current & Future Analysis
China
India
High Potential Ahead
Japan
B. Market Analytics
Analytics by Product Segment

Table 110. Asia-Pacific Recent Past, Current & Future Analysis for Advanced Ceramicsby Product Segment - Matrix Composites, Coatings and Monolithic Ceramics MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024(includes corresponding Graph/Chart)

Table 111. Asia-Pacific Historic Review for Advanced Ceramics by Product Segment -Matrix Composites, Coatings and Monolithic Ceramics Markets Independently Analyzedwith Annual Sales in US\$ Million for Years 2011 through 2015 (includes correspondingGraph/Chart)



Table 112. Asia-Pacific 14-Year Perspective for Advanced Ceramics by ProductSegment - Percentage Breakdown of Value Sales for Matrix Composites, Coatings andMonolithic Ceramics Markets for Years 2011, 2018 and 2024 (includes correspondingGraph/Chart)

Analytics by End-use Sector

Table 113. Asia-Pacific Recent Past, Current & Future Analysis for Advanced Ceramicsby End-Use Sector - Chemical, Electrical & Electronics, Machinery, Transportation andOthers Markets Independently Analyzed with Annual Sales in US\$ Million for Years2016 through 2024 (includes corresponding Graph/Chart)

Table 114. Asia-Pacific Historic Review for Advanced Ceramics by End-Use Sector -Chemical, Electrical & Electronics, Machinery, Transportation and Others MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 115. Asia-Pacific 14-Year Perspective for Advanced Ceramics by End-UseSector - Percentage Breakdown of Value Sales for Chemical, Electrical & Electronics,Machinery, Transportation and Others Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

8.5 The Middle East & AfricaMarket AnalysisAnalytics by Product Segment

Table 116. Middle East & Africa Recent Past, Current & Future Analysis for AdvancedCeramics by Product Segment - Matrix Composites, Coatings and Monolithic CeramicsMarkets Independently Analyzed with Annual Sales in US\$ Million for Years 2016through 2024 (includes corresponding Graph/Chart)

Table 117. Middle East & Africa Historic Review for Advanced Ceramics by ProductSegment - Matrix Composites, Coatings and Monolithic Ceramics MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

 Table 118. Middle East & Africa 14-Year Perspective for Advanced Ceramics by



Product Segment - Percentage Breakdown of Value Sales for Matrix Composites, Coatings and Monolithic Ceramics Markets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)

Analytics by End-use Sector

Table 119. Middle East & Africa Recent Past, Current & Future Analysis for AdvancedCeramics by End-Use Sector - Chemical, Electrical & Electronics, Machinery,Transportation and Others Markets Independently Analyzed with Annual Sales in US\$Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 120. Middle East & Africa Historic Review for Advanced Ceramics by End-UseSector - Chemical, Electrical & Electronics, Machinery, Transportation and OthersMarkets Independently Analyzed with Annual Sales in US\$ Million for Years 2011through 2015 (includes corresponding Graph/Chart)

Table 121. Middle East & Africa 14-Year Perspective for Advanced Ceramics by End-Use Sector - Percentage Breakdown of Value Sales for Chemical, Electrical &Electronics, Machinery, Transportation and Others Markets for Years 2011, 2018 and2024 (includes corresponding Graph/Chart)

8.6 Latin AmericaMarket AnalysisAnalytics by Geographic Region

Table 122. Latin American Recent Past, Current & Future Analysis for AdvancedCeramics by Geographic Region - Brazil and Rest of Latin America MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024(includes corresponding Graph/Chart)

Table 123. Latin American Historic Review for Advanced Ceramics by GeographicRegion - Brazil and Rest of Latin America Markets Independently Analyzed with AnnualSales in US\$ Million for Years 2011 through 2015 (includes corresponding Graph/Chart)

Table 124. Latin American 14-Year Perspective for Advanced Ceramics by GeographicRegion - Percentage Breakdown of Value Sales for Brazil and Rest of Latin AmericaMarkets for Years 2011, 2018 and 2024 (includes corresponding Graph/Chart)



Analytics by Product Segment

Table 125. Latin American Recent Past, Current & Future Analysis for AdvancedCeramics by Product Segment - Matrix Composites, Coatings and Monolithic CeramicsMarkets Independently Analyzed with Annual Sales in US\$ Million for Years 2016through 2024 (includes corresponding Graph/Chart)

Table 126. Latin American Historic Review for Advanced Ceramics by Product Segment- Matrix Composites, Coatings and Monolithic Ceramics Markets IndependentlyAnalyzed with Annual Sales in US\$ Million for Years 2011 through 2015 (includescorresponding Graph/Chart)

Table 127. Latin American 14-Year Perspective for Advanced Ceramics by ProductSegment - Percentage Breakdown of Value Sales for Matrix Composites, Coatings andMonolithic Ceramics Markets for Years 2011, 2018 and 2024 (includes correspondingGraph/Chart)

Analytics by End-use Sector

Table 128. Latin American Recent Past, Current & Future Analysis for AdvancedCeramics by End-Use Sector - Chemical, Electrical & Electronics, Machinery,Transportation and Others Markets Independently Analyzed with Annual Sales in US\$Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 129. Latin American Historic Review for Advanced Ceramics by End-Use Sector -Chemical, Electrical & Electronics, Machinery, Transportation and Others MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 130. Latin American 14-Year Perspective for Advanced Ceramics by End-UseSector - Percentage Breakdown of Value Sales for Chemical, Electrical & Electronics,Machinery, Transportation and Others Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

8.6.1 Brazil Market Analysis Analytics by Product Segment

Advanced Ceramics: Market Research Report



Table 131. Brazilian Recent Past, Current & Future Analysis for Advanced Ceramics byProduct Segment - Matrix Composites, Coatings and Monolithic Ceramics MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2016 through 2024(includes corresponding Graph/Chart)

Table 132. Brazilian Historic Review for Advanced Ceramics by Product Segment -Matrix Composites, Coatings and Monolithic Ceramics Markets Independently Analyzedwith Annual Sales in US\$ Million for Years 2011 through 2015 (includes correspondingGraph/Chart)

Table 133. Brazilian 14-Year Perspective for Advanced Ceramics by Product Segment -Percentage Breakdown of Value Sales for Matrix Composites, Coatings and MonolithicCeramics Markets for Years 2011, 2018 and 2024 (includes correspondingGraph/Chart)

Analytics by End-use Sector

Table 134. Brazilian Recent Past, Current & Future Analysis for Advanced Ceramics byEnd-Use Sector - Chemical, Electrical & Electronics, Machinery, Transportation andOthers Markets Independently Analyzed with Annual Sales in US\$ Million for Years2016 through 2024 (includes corresponding Graph/Chart)

Table 135. Brazilian Historic Review for Advanced Ceramics by End-Use Sector -Chemical, Electrical & Electronics, Machinery, Transportation and Others MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 136. Brazilian 14-Year Perspective for Advanced Ceramics by End-Use Sector -Percentage Breakdown of Value Sales for Chemical, Electrical & Electronics,Machinery, Transportation and Others Markets for Years 2011, 2018 and 2024(includes corresponding Graph/Chart)

8.6.2 Rest of Latin America Market Analysis Analytics by Product Segment



Table 137. Rest of Latin American Recent Past, Current & Future Analysis forAdvanced Ceramics by Product Segment - Matrix Composites, Coatings and MonolithicCeramics Markets Independently Analyzed with Annual Sales in US\$ Million for Years2016 through 2024 (includes corresponding Graph/Chart)

Table 138. Rest of Latin American Historic Review for Advanced Ceramics by ProductSegment - Matrix Composites, Coatings and Monolithic Ceramics MarketsIndependently Analyzed with Annual Sales in US\$ Million for Years 2011 through 2015(includes corresponding Graph/Chart)

Table 139. Rest of Latin American 14-Year Perspective for Advanced Ceramics byProduct Segment - Percentage Breakdown of Value Sales for Matrix Composites,Coatings and Monolithic Ceramics Markets for Years 2011, 2018 and 2024 (includescorresponding Graph/Chart)

Analytics by End-use Sector

Table 140. Rest of Latin American Recent Past, Current & Future Analysis forAdvanced Ceramics by End-Use Sector - Chemical, Electrical & Electronics, Machinery,Transportation and Others Markets Independently Analyzed with Annual Sales in US\$Million for Years 2016 through 2024 (includes corresponding Graph/Chart)

Table 141. Rest of Latin American Historic Review for Advanced Ceramics by End-UseSector - Chemical, Electrical & Electronics, Machinery, Transportation and OthersMarkets Independently Analyzed with Annual Sales in US\$ Million for Years 2011through 2015 (includes corresponding Graph/Chart)

Table 142. Rest of Latin American 14-Year Perspective for Advanced Ceramics by End-Use Sector - Percentage Breakdown of Value Sales for Chemical, Electrical &Electronics, Machinery, Transportation and Others Markets for Years 2011, 2018 and2024 (includes corresponding Graph/Chart)

9. COMPANY PROFILES

Total Companies Profiled: 114 (including Divisions/Subsidiaries - 130) The United States (65) Canada (2)





Japan (11) Europe (44) France (6) Germany (17) The United Kingdom (11) Rest of Europe (10) Asia-Pacific (Excluding Japan) (8)



I would like to order

Product name: Advanced Ceramics: Market Research Report

Product link: https://marketpublishers.com/r/A2223927674EN.html

Price: US\$ 5,800.00 (Single User License / Electronic Delivery) If you want to order Corporate License or Hard Copy, please, contact our Customer Service: <u>info@marketpublishers.com</u>

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <u>https://marketpublishers.com/r/A2223927674EN.html</u>