

Advanced Functional Material Market For Low Carbon Applications By Categories (Ceramics, Composites, Energy Materials, Conductive Polymers & Nanomaterials), Applications (Chemicals, Electronics, Healthcare & Transportation) & Geography - Global Trends & Forecasts To 2018

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Abstracts

AFM for low carbon applications is an umbrella topic, which has five categories of materials. These include advanced functional ceramics, advanced functional composites, advanced energy materials, nanomaterials, and conductive polymers. AFM are substituting conventional material because of its superior physical and chemical properties. AFM are capable of reducing the carbon footprint of the parent system in which it is incorporated. Components and systems that use AFMs use energy more efficiently and emit less CO₂. It will have a longer service life and a lower replacement footprint. Replacement footprint refers to the addition carbon footprint generated during manufacturing of the component that is to be replaced. End user industries for AFM are automotive, aerospace, consumer durables, energy & power, and healthcare.

About the market

The global market for AFM has grown significantly during the past few years and is expected to grow at a modest pace in the next five years, mainly driven by growing demand in the Asia-Pacific region. Market revenue for AFM in Asia-Pacific was \$29,756.9 million in 2012. China, Japan, and South Korea are the major markets for AFM in Asia-Pacific. Other markets in Asia-Pacific include India, Taiwan, South Korea, Malaysia, Indonesia, Philippines, and Thailand. The demand for AFM in these markets is fueled by demand from end user industries such as automotive, aerospace, energy &

power, electronics, healthcare, and infrastructure.

This report aims to estimate the global market for AFM for 2013 and to project the expected demand of the same in 2018. This market research study provides a detailed qualitative and quantitative analysis of the global AFM market. It provides a comprehensive review of major market drivers, restraints, opportunities, winning imperatives, challenges, and key issues in the market. Opportunities for new entrants in light of market forces such as consumers bargaining strength, raw material sourcing, and market penetration threshold are analyzed using Porters model. The global AFM market is segmented into four major geographies. These are North America, Europe, Asia-Pacific, and ROW. Major markets in these geographies such as the U.S., France, Germany, U.K., China, Japan, South Korea, and Brazil are estimated and forecasted. The market is also segmented by various applications of AFM. We have used various secondary sources such as encyclopedia, directories, and databases to identify & collect information useful for this extensive commercial study of AFM market. The primary sources - experts from related industries and suppliers have been interviewed to obtain & verify critical information as well as to assess the future prospects of AFM.

Competitive scenarios of the top players in the AFM market are discussed in detail. We have also profiled leading players of this industry with their recent developments and other strategic industry activities. These include: Wacker Chemie AG (Germany), ReneSola Ltd (China), 3m Company (U.S.), Bayer AG (Germany), E. I. du Pont de Nemours and Company (U.S.), Deutsche Edelstahlwerke GmbH (Germany), Kyocera Corporation (Japan), Momenive Performance Materials Inc. (U.S.), etc.

Scope of the report: This research report categorizes the global market for AFM for low carbon applications on the basis of applications, and geography, forecasting volumes and revenues in each of the submarkets.

On the basis of applications: The AFM market is segmented on the basis of industry application as electrical & electronics, chemicals & materials, energy & power, transportation, healthcare & pharmaceuticals, and others. Each application is further described in detail in the report with volume and revenue forecast for each application.

On the basis of geography: The global AFM market is segmented into four geographies, North America, Europe, Asia-Pacific, and ROW. Key countries include the U.S., Canada, Germany, France, U.K., Italy, China, Japan, South Korea, Israel, and Brazil.

Contents

1 INTRODUCTION

- 1.1 Key Take-Aways
- 1.2 Report Description
- 1.3 Stakeholders
- 1.4 Research Methodology
 - 1.4.1 Market Size
 - 1.4.2 Major Secondary Sources Used
 - 1.4.3 Key Data Points Taken From Secondary Sources
 - 1.4.4 Key Data Points Taken From Primary Sources
 - 1.4.5 Assumptions Made For This Report

2 EXECUTIVE SUMMARY

3 PREMIUM INSIGHTS

- 3.1 Advanced Functional Material Market Segments
- 3.2 Advanced Functional Material Market Dynamics
- 3.3 Advanced Functional Material Market Global Outlook

4 MARKET OVERVIEW

- 4.1 Introduction
- 4.2 Value Chain Analysis
 - 4.2.1 Raw Materials For Advanced Functional Material
 - 4.2.2 Advanced Functional Material Manufacturers
 - 4.2.3 Distribution Network
 - 4.2.4 Industry Applications
- 4.3 Market Dynamics
 - 4.3.1 Drivers
 - 4.3.1.1 Advanced Functional Material Substituting Conventional Materials In Transportation Industry
 - 4.3.1.2 Growing Demand In Healthcare Applications
 - 4.3.1.3 Growing Demand In Regional Markets Of Asia-Pacific
 - 4.3.2 Restraints
 - 4.3.2.1 Cost And Raw Material Availability Restricting Market Penetration Of Advanced Functional Material

4.3.3 Opportunities

4.3.3.1 Conductive Polymers, An Emerging Market

4.3.3.2 Eco-Buildings Of The Future Using Advanced Functional Material

4.3.3.3 Asia-Pacific Expected To Grow Rapidly Through 2018

4.4 Burning Issues

4.4.1 Lack Of Standardization In Industry

4.5 Winning Imperatives

4.5.1 Establishing Geography Specific Supply Chain

4.5.2 Establishing Production Capacities In Low Cost And High Consumption Markets

In Asia-Pacific

4.6 Raw Material Analysis

4.7 Porter's Five Force Analysis

4.7.1 Threat Of New Entrants

4.7.2 Threat Of Substitutes

4.7.3 Buyer's Power

4.7.4 Supplier's Power

4.7.5 Degree Of Competition

4.8 Patent Analysis

5 ADVANCED FUNCTIONAL CERAMICS

5.1 Introduction

5.2 Advanced Functional Ceramics, By Application

5.2.1 Electrical & Electronics

5.2.2 Transportation

5.2.3 Machinery

5.2.4 Healthcare

5.2.5 Others

5.3 Advanced Functional Ceramics, By Geography

5.3.1 North America

5.3.1.1 U.S.

5.3.1.2 Others

5.3.2 Europe

5.3.2.1 Germany

5.3.2.2 France

5.3.2.3 U.K.

5.3.2.4 Others

5.3.3 Asia-Pacific

5.3.3.1 Japan

- 5.3.3.2 China
- 5.3.3.3 South Korea
- 5.3.3.4 Others
- 5.3.4 ROW
 - 5.3.4.1 Brazil
 - 5.3.4.2 Other

6 ADVANCE FUNCTIONAL COMPOSITES

- 6.1 Introduction
- 6.2 Advance Functional Composites Market, By Application
 - 6.2.1 Automotive
 - 6.2.2 Marine
 - 6.2.3 Wind Energy
 - 6.2.4 Aerospace
 - 6.2.5 Pipes & Tanks
 - 6.2.6 Building & Construction
 - 6.2.7 Electrical & Electronics
 - 6.2.8 Consumer Goods
 - 6.2.9 Other
- 6.3 Advance Functional Composites Market, By Geography
 - 6.3.1 North America
 - 6.3.1.1 U.S.
 - 6.3.1.2 Other
 - 6.3.2 Europe
 - 6.3.2.1 Germany
 - 6.3.2.2 France
 - 6.3.2.3 U.K.
 - 6.3.2.4 Other
 - 6.3.3 Asia-Pacific
 - 6.3.3.1 China
 - 6.3.3.2 Japan
 - 6.3.3.3 South Korea
 - 6.3.3.4 Other
 - 6.3.4 ROW
 - 6.3.4.1 Brazil
 - 6.3.4.2 Other

7 ADVANCED ENERGY MATERIALS

- 7.1 Introduction
- 7.2 Advanced Energy Materials, By Type
 - 7.2.1 Crystalline Silicon Solar Cell Material
 - 7.2.2 Thin Film Solar Cell Material
- 7.3 Advanced Energy Materials, By Geography
 - 7.3.1 North America
 - 7.3.1.1 U.S.
 - 7.3.1.2 Other
 - 7.3.2 Europe
 - 7.3.2.1 Germany
 - 7.3.2.2 Italy
 - 7.3.2.3 France
 - 7.3.2.4 Other
 - 7.3.3 Asia-Pacific
 - 7.3.3.1 Japan
 - 7.3.3.2 China
 - 7.3.3.3 South Korea
 - 7.3.3.4 Other
 - 7.3.4 ROW
 - 7.3.4.1 Israel
 - 7.3.4.2 Other

8 CONDUCTIVE POLYMERS

- 8.1 Introduction
- 8.2 Conductive Polymers, By Application
 - 8.2.1 Oled
 - 8.2.2 Capacitors
 - 8.2.3 Batteries
 - 8.2.4 Organic/Plastic Transistor
 - 8.2.5 Sensors
 - 8.2.6 Solar Cell Components
 - 8.2.7 Actuators
 - 8.2.8 Textile & Fabrics
 - 8.2.9 Anti-Electromagnetic Interference Equipment
 - 8.2.10 Anti-Electrostatic Discharge Equipment
 - 8.2.11 Antistatic Packaging
 - 8.2.12 Electrostatic Paints & Coatings

8.2.13 Other Applications

8.3 Conductive Polymers, By Geography

8.3.1 North America

8.3.1.1 U.S.

8.3.1.2 Others

8.3.2 Europe

8.3.2.1 Germany

8.3.2.2 France

8.3.2.3 U.K.

8.3.2.4 Others

8.3.3 Asia-Pacific

8.3.3.1 China

8.3.3.2 Japan

8.3.3.3 South Korea

8.3.3.4 Others

8.3.4 ROW

8.3.4.1 Brazil

8.3.4.2 Others

9 NANOMATERIALS

9.1 Introduction

9.2 Nanomaterials Global Market, By Application

9.2.1 Chemicals & Materials

9.2.2 Electrical & Electronics

9.2.3 Healthcare & Pharmaceuticals

9.2.4 Aerospace

9.2.5 Other

9.3 Nanomaterials Market, By Geography

9.3.1 North America

9.3.1.1 U.S.

9.3.1.2 Other

9.3.2 Europe

9.3.2.1 Germany

9.3.2.2 France

9.3.2.3 U.K.

9.3.2.4 Other

9.3.3 Asia-Pacific

9.3.3.1 China

- 9.3.3.2 Japan
- 9.3.3.3 South Korea
- 9.3.3.4 Other
- 9.3.4 ROW
- 9.3.4.1 Brazil
- 9.3.4.2 Other

10 COMPETITIVE LANDSCAPE

- 10.1 Introduction
- 10.2 Agreements & Collaborations: The Most Popular Growth Strategy
- 10.3 Maximum Development In 2011
- 10.4 Asia-Pacific: Region With Maximum Developments
- 10.5 Renesola Ltd, E. I. Du. Pont. De. Nemours And Company: The Most Active Participants
- 10.6 Mergers & Acquisitions
- 10.7 New Products Launch/Developments
- 10.8 Agreements & Collaborations
- 10.9 Expansions

11 COMPANY PROFILES (OVERVIEW, FINANCIALS, PRODUCTS & SERVICES, STRATEGY, AND DEVELOPMENTS)

- 11.1 3A Composites Holding AG
- 11.2 3M Company
- 11.3 Air Products And Chemicals, Inc.
- 11.4 Ametek Inc.
- 11.5 Applied Materials Inc.
- 11.6 Applied Nanotech Holdings, Inc.
- 11.7 Bayer AG
- 11.8 Cambridge Display Technology Ltd (CDT Ltd)
- 11.9 CNANO Technology Ltd
- 11.10 Ceradyne Inc.
- 11.11 CPS Technologies Corporation
- 11.12 Crosslink
- 11.13 Deutsche Edelstahlwerke GMBH
- 11.14 E.I. Du Pont De Nemours & Company
- 11.15 Kyocera Corporation
- 11.16 LDK Solar Hi-Tech Co. Ltd.

- 11.17 Materion Corporation
- 11.18 Momentive Performance Materials Inc.
- 11.19 Murata Manufacturing Company, Ltd.
- 11.20 Renesola Ltd
- 11.21 Samsung Electro-Mechanics Co., Ltd.
- 11.22 Sunedison Inc.
- 11.23 Showa Denko K.K. (SDK)
- 11.24 Wacker Chemie AG (Details On Overview, Financials, Product & Services, Strategy, And Developments Might Not Be Captured In Case Of Unlisted Companies.)

APPENDIX

Advanced Functional Ceramics: U.S. Patents
Advanced Functional Ceramics: Europe Patents
Advanced Functional Ceramics: Japan Patents
Advanced Functional Composites: U.S. Patents
Advanced Functional Composites: Europe Patents
Advanced Functional Composites: Japan Patents
Conductive Polymers: U.S. Patents
Conductive Polymers: Europe Patents
Conductive Polymers: Japan Patents
Nanomaterials: U.S. Patents
Nanomaterials: Europe Patents
Nanomaterials: Japan Patents
Advanced Energy Materials: U.S. Patents
Advanced Energy Materials: Europe Patents
Advanced Energy Materials: Japan Patents

List Of Tables

LIST OF TABLES

Table 1 Advanced Functional Material: Market Volume, By Geography, 2011 – 2018 (Kilotons)

Table 2 Advanced Functional Material: Market Revenue, By Geography, 2011 – 2018 (\$Million)

Table 3 Advanced Functional Material: Market Volume, By Category, 2011 – 2018 (Kilotons)

Table 4 Advanced Functional Material: Market Revenue, By Category, 2011 – 2018 (\$Million)

Table 5 Advanced Functional Ceramics: Market Volume, By Geography, 2011 - 2018 (Kilotons)

Table 6 Advanced Functional Ceramics: Market Revenue, By Geography, 2011 - 2018 (\$Million)

Table 7 Electrical & Electronics: Advanced Functional Ceramics Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 8 Transportation: Advanced Functional Ceramics Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 9 Machinery: Advanced Functional Ceramics Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 10 Healthcare: Advanced Functional Ceramics Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 11 Other: Advanced Functional Ceramics Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 12 North America: Advanced Functional Ceramics, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 13 North America: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 14 U.S: Advanced Functional Ceramics, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 15 U.S: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 16 Others: Advanced Functional Ceramics, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 17 Other: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 18 Europe: Advanced Functional Ceramics, Market Volume, By Applications,

2011 – 2018 (Kilotons)

Table 19 Europe: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 20 Germany: Advanced Functional Ceramics, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 21 Germany: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 22 France: Advanced Functional Ceramics, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 23 France: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 24 U.K: Advanced Functional Ceramics, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 25 U.K: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 26 Others: Advanced Functional Ceramics, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 27 Others: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 28 Asia-Pacific: Advanced Functional Ceramics, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 29 Asia-Pacific: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 30 Japan: Advanced Functional Ceramics, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 31 Japan: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 32 China: Advanced Functional Ceramics, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 33 China: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 34 South Korea: Advanced Functional Ceramics, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 35 South Korea: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (Kilotons)

Table 36 Others: Advanced Functional Ceramics, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 37 Others: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 38 Row: Advanced Functional Ceramics, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 39 Row: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 40 Brazil: Advanced Functional Ceramics, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 41 Brazil: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 42 Other: Advanced Functional Ceramics, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 43 Other: Advanced Functional Ceramics, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 44 Advanced Functional Composites: Market Volume, By Geography, 2011 - 2018 (Kilotons)

Table 45 Advanced Functional Composites: Market Revenue, By Geography, 2011 – 2018 (\$Million)

Table 46 Automotive: Advanced Functional Composites Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 47 Marine: Advanced Functional Composites Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 48 Wind Energy: Advanced Functional Composites Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 49 Aerospace: Advanced Functional Composites Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 50 Pipes & Tanks: Advanced Functional Composites Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 51 Building & Construction: Advanced Functional Composites Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 52 Electrical & Electronics: Advanced Functional Composites Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 53 Consumer Goods: Advanced Functional Composites Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 54 Other: Advanced Functional Composites Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 55 North America: Advanced Functional Composites, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 56 North America: Advanced Functional Composites, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 57 U.S: Advanced Functional Composites, Market Volume, By Applications, 2011

– 2018 (Kilotons)

Table 58 U.S: Advanced Functional Composites, Market Revenue,By Applications, 2011 – 2018 (\$Million)

Table 59 Other: Advanced Functional Composites, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 60 Other: Advanced Functional Composites, Market Revenue,By Applications, 2011 – 2018 (\$Million)

Table 61 Europe: Advanced Functional Composites, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 62 Europe: Advanced Functional Composites, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 63 Germany: Advanced Functional Composites, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 64 Germany: Advanced Functional Composites, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 65 France: Advanced Functional Composites, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 66 France: Advanced Functional Composites, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 67 U.K: Advanced Functional Composites, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 68 U.K: Advanced Functional Composites, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 69 Other: Advanced Functional Composites, Market Volume,By Applications, 2011 – 2018 (Kilotons)

Table 70 Other: Advanced Functional Composites, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 71 Asia-Pacific: Advanced Functional Composites, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 72 Asia-Pacific: Advanced Functional Composites, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 73 China: Advanced Functional Composites, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 74 China: Advanced Functional Composites, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 75 Japan: Advanced Functional Composites, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 76 Japan: Advanced Functional Composites, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 77 South Korea: Advanced Functional Composites, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 78 South Korea: Advanced Functional Composites, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 79 Others: Advanced Functional Composites, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 80 Others: Advanced Functional Composites, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 81 ROW: Advanced Functional Composites, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 82 ROW: Advanced Functional Composites, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 83 Brazil: Advanced Functional Composites, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 84 Brazil: Advanced Functional Composites, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 85 Other: Advanced Functional Composites, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 86 Other: Advanced Functional Composites, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 87 Advanced Energy Materials: Market Volume, By Geography, 2011 – 2018 (Kilotons)

Table 88 Advanced Energy Materials: Market Revenue, By Geography, 2011 – 2018 (\$Million)

Table 89 Crystalline Silicon Solar Cell Material: Advanced Energy Materials Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 90 Thin Film Solar Cell Material: Advanced Energy Materials Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 91 North America: Advanced Energy Materials, Market Volume, By Types, 2011 – 2018 (Kilotons)

Table 92 North America: Advanced Energy Materials Market Revenue, By Types, 2011 – 2018 (\$Million)

Table 93 U.S: Advanced Energy Materials, Market Volume, By Types, 2011 – 2018 (Kilotons)

Table 94 U.S.: Advanced Energy Materials, Market Revenue, By Types, 2011 – 2018 (\$Million)

Table 95 Other: Advanced Energy Materials Market Volume, By Types, 2011 – 2018 (Kilotons)

Table 96 Other: Advanced Energy Materials Market Revenue, By Types, 2011 – 2018

(\$Million)

Table 97 Europe: Advanced Energy Materials, Market Volume, By Types, 2011 – 2018

(Kilotons)

Table 98 Europe: Advanced Energy Materials Market Revenue, By Types, 2011 – 2018

(\$Million)

Table 99 Germany: Advanced Energy Materials, Market Volume, By Types, 2011 – 2018 (Kilotons)

Table 100 Germany: Advanced Energy Materials, Market Revenue, By Types, 2011 – 2018 (\$Million)

Table 101 Italy: Advanced Energy Materials, Market Volume, By Types, 2011 – 2018 (Kilotons)

Table 102 Italy: Advanced Energy Materials, Market Revenue, By Types, 2011 – 2018 (\$Million)

Table 103 France: Advanced Energy Materials, Market Volume, By Types, 2011 – 2018 (Kilotons)

Table 104 France: Advanced Energy Materials, Market Revenue, By Types, 2011 – 2018 (\$Million)

Table 105 Other: Advanced Energy Materials, Market Volume, By Types, 2011 – 2018 (Kilotons)

Table 106 Other: Advanced Energy Materials Market Revenue, By Types, 2011 – 2018 (\$Million)

Table 107 Asia-Pacific: Advanced Energy Materials, Market Volume, By Types, 2011 – 2018 (Kilotons)

Table 108 Asia-Pacific: Advanced Energy Materials, Market Revenue, By Types, 2011 – 2018 (\$Million)

Table 109 Japan: Advanced Energy Materials, Market Volume, By Types, 2011 – 2018 (Kilotons)

Table 110 Japan: Advanced Energy Materials, Market Revenue, By Types, 2011 – 2018 (\$Million)

Table 111 China: Advanced Energy Materials, Market Volume, By Types, 2011 – 2018 (Kilotons)

Table 112 China: Advanced Energy Materials, Market Revenue, By Types, 2011 – 2018 (\$Million)

Table 113 South Korea: Advanced Energy Materials, Market Volume, By Types, 2011 – 2018 (Kilotons)

Table 114 South Korea: Advanced Energy Materials, Market Revenue, By Types, 2011 – 2018 (\$Million)

Table 115 Other: Advanced Energy Materials, Market Volume, By Types, 2011 – 2018 (Kilotons)

Table 116 Other: Advanced Energy Materials, Market Revenue, By Types, 2011 – 2018 (\$Million)

Table 117 ROW: Advanced Energy Materials, Market Volume, By Types, 2011 – 2018 (Kilotons)

Table 118 ROW: Advanced Energy Materials, Market Revenue, By Types, 2011 – 2018 (\$Million)

Table 119 Israel: Advanced Energy Materials, Market Volume, By Types, 2011 – 2018 (Kilotons)

Table 120 Israel: Advanced Energy Materials, Market Revenue, By Types, 2011 – 2018 (\$Million)

Table 121 Other: Advanced Energy Materials, Market Volume, By Types, 2011 – 2018 (Kilotons)

Table 122 Other: Advanced Energy Materials, Market Revenue, By Types, 2011 – 2018 (\$Million)

Table 123 Conductive Polymers: Market Volume, By Geography, 2011 – 2018 (Kilotons)

Table 124 Conductive Polymers: Market Revenue, By Geography, 2011- 2018 (\$Million)

Table 125 Oled: Global Conductive Polymer, Market, By Volume (Tons) & Revenue (\$Million), 2011 – 2018

Table 126 Capacitors: Conductive Polymer Market, By Volume (Tons) & Revenue (\$Million), 2011 – 2018

Table 127 Batteries: Conductive Polymer Market, By Volume (Tons) & Revenue (\$Million), 2011 – 2018

Table 128 Transistors: Conductive Polymer Market, By Volume (Tons) & Revenue (\$Million), 2011 – 2018

Table 129 Sensors: Conductive Polymer Market, By Volume (Tons) & Revenue (\$Million), 2011 – 2018

Table 130 Solar Cell Components: Conductive Polymer Market, By Volume (Tons) & Revenue (\$Million), 2011 – 2018

Table 131 Actuators: Conductive Polymer Market, By Volume (Tons) & Revenue (\$Million), 2011 – 2018

Table 132 Textile & Fabrics: Conductive Polymer Market, By Volume (Tons) & Revenue (\$Million), 2011 – 2018

Table 133 Anti Electromagnetic Interference Equipment: Conductive Polymer Market, By Volume (Tons) & Revenue (\$Million), 2011 – 2018

Table 134 Anti-Electrostatic Discharge Equipment: Conductive Polymer Market, By Volume (Tons) & Revenue (\$Million), 2011 – 2018

Table 135 Antistatic Packaging: Conductive Polymer Market, By Volume (Tons) & Revenue (\$Million), 2011 – 2018

Table 136 Pcep: Conductive Polymer Market, By Volume (Tons) & Revenue (\$Million),

2011 – 2018

Table 137 Other Applications: Conductive Polymer Market, By Volume (Tons) & Revenue (\$Million), 2011 – 2018

Table 138 North America: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 139 North America: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 140 U.S.: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 141 U.S.: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 142 Others: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 143 Others: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 144 Europe: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 145 Europe: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 146 Germany: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 147 Germany: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 148 France: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 149 France: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 150 U.K.: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 151 U.K.: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 152 Others: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 153 Others: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 154 Asia-Pacific: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 155 Asia-Pacific: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 156 China: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 157 China: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 158 Japan: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 159 Japan: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 160 South Korea: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 161 South Korea: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 162 Others: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 163 Others: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 164 ROW: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 165 ROW: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 166 Brazil: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 167 Brazil: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 168 Others: Conductive Polymers, Market Volume, By Applications, 2011 – 2018 (Tons)

Table 169 Others: Conductive Polymers, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 170 Nanomaterials: Market Volume, By Geography, 2011 – 2018 (Kilotons)

Table 171 Nanomaterials: Market Revenue, By Geography, 2011 – 2018 (\$Million)

Table 172 Chemicals & Materials: Global Nanomaterials Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 173 Electrical & Electronics: Global Nanomaterials Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 174 Healthcare & Pharmaceuticals: Global Nanomaterials Market, By Volume (Kilotons) & Revenue (\$Million), 2011 – 2018

Table 175 Aerospace: Global Nanomaterials Market, By Volume (Tons) & Revenue (\$Million), 2011 – 2018

Table 176 Other: Global Nanomaterials Market, By Volume (Tons) & Revenue

(\$Million), 2011 – 2018

Table 177 North America: Nanomaterials Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 178 North America: Nanomaterials, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 179 U.S.: Nanomaterials, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 180 U.S.: Nanomaterials, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 181 Other: Nanomaterials, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 182 Others: Nanomaterials, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 183 Europe: Nanomaterials, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 184 Europe: Nanomaterials, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 185 Germany: Nanomaterials, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 186 Germany: Nanomaterials, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 187 France: Nanomaterials, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 188 France: Nanomaterials, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 189 U.K: Nanomaterials, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 190 U.K: Nanomaterials, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 191 Other: Nanomaterials, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 192 Others: Nanomaterials, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 193 Asia-Pacific: Nanomaterials, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 194 Asia-Pacific: Nanomaterials, Market Revenue, By Applications, 2011 – 2018 (\$Million)

Table 195 China: Nanomaterials, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 196 China: Nanomaterials, Market Revenue, By Applications, 2011 - 2018 (\$Million)

Table 197 Japan: Nanomaterials, Market Volume, By Applications, 2011 – 2018
(Kilotons)

Table 198 Japan: Nanomaterials, Market Revenue, By Applications, 2011 – 2018
(\$Million)

Table 199 South Korea: Nanomaterials, Market Volume, By Applications, 2011 – 2018
(Kilotons)

Table 200 South Korea: Nanomaterials, Market Revenue, By Applications, 2011 – 2018
(\$Million)

Table 201 Other: Nanomaterials, Market Volume, By Applications, 2011 – 2018
(Kilotons)

Table 202 Other: Nanomaterials, Market Revenue, By Applications, 2011 - 2018
(\$Million)

Table 203 Row: Nanomaterials, Market Volume, By Applications, 2011 – 2018 (Kilotons)

Table 204 Row: Nanomaterials, Market Revenue, By Applications, 2011 – 2018
(\$Million)

Table 205 Brazil: Nanomaterials, Market Volume, By Applications, 2011 – 2018
(Kilotons)

Table 206 Brazil: Nanomaterials, Market Revenue, By Applications, 2011 – 2018
(\$Million)

Table 207 Other: Nanomaterials, Market Volume, By Applications, 2011 – 2018
(Kilotons)

Table 208 Other: Nanomaterials, Market Revenue, By Applications, 2011 – 2018
(\$Million)

Table 209 Mergers & Acquisitions

Table 210 New Products Launch/Developments, 2010 – 2013

Table 211 Agreements & Collaborations, 2010 – 2013

Table 212 Expansions 2010 – 2013

Table 213 3A Composites: Products & Its Applications

Table 214 3M: Annual Revenue, By Business Segment, 2011 – 2012 (\$Million)

Table 215 3M: Products & Its Applications

Table 216 Air Products: Annual Revenue, By Business Segment, 2011 - 2012 (\$Million)

Table 217 Air Products: Products & Its Applications

Table 218 Ametek: Annual Revenue, By Business Segment, 2011 - 2012 (\$Million)

Table 219 Ametek: Products & Its Applications

Table 220 Applied Materials: Annual Revenue, By Business Segment, 2011 - 2012
(\$Million)

Table 221 Applied Material: Products & Its Applications

Table 222 Applied Nanotech: Products & Its Applications

Table 223 Bayer Ag: Annual Revenue, By Business Segment, 2011 - 2012 (\$Million)

Table 224 Bayer Ag: Products & Its Applications
Table 225 CDT: Products & Its Applications
Table 226 CNANO: Products & Its Applications
Table 227 Ceradyne: Annual Revenue, By Business Segment, 2010 – 2011 (\$Million)
Table 228 Ceradyne: Products & Its Applications
Table 229 CPS: Products & Its Applications
Table 230 Crosslink: Products & Its Applications
Table 231 Deutsche Edelstahlwerke: Products & Its Applications
Table 232 Dupont: Annual Revenue, By Business Segment, 2011 - 2012 (\$Million)
Table 233 Dupont: Products & Its Applications
Table 234 Kyocera: Annual Revenue, By Business Segment, 2011 - 2012 (\$Million)
Table 235 Kyocera: Products & Its Applications
Table 236 LDK Solar: Annual Revenue, By Business Segment, 2011 - 2012 (\$Million)
Table 237 LDK Solar: Products & Its Applications
Table 238 Materion: Annual Revenue, By Business Segment, 2011 - 2012 (\$Million)
Table 239 Materion: Products & Its Applications
Table 240 Momentive Performance Materials: Annual Revenue, By Business Segment, 2011 – 2012 (\$Million)
Table 241 Momentive Performance Materials: Products & Its Applications
Table 242 Murata: Annual Revenue, By Business Segment, 2011 - 2012 (\$Million)
Table 243 Murata: Products & Its Applications
Table 244 Renesola: Annual Revenue, By Business Segment, 2011 - 2012 (\$Million)
Table 245 Renesola: Annual Revenue, By Product Segment, 2011 - 2012 (\$Million)
Table 246 Renesola: Products & Its Applications
Table 247 Samsung Electro-Mechanics: Annual Revenue, By Business Segment, 2010 - 2011, (\$Million)
Table 248 Samsung Electro-Mechanics: Products & Its Applications
Table 249 Sunedison: Annual Revenue, By Business Segment, 2011 – 2012 (\$Million)
Table 250 Sunedison: Products & It

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