

Nanomaterials Market by Type (Carbon Nanotubes, Fullerenes, Graphene, Nano Titanium Dioxide, Nano Zinc Oxide, Nano Silicon Dioxide, Nano Copper Oxide, Nano Cobalt Oxide, Nano Iron Oxide, Nano Manganese Oxide, Nano Zirconium Oxide, Nano Silver, Nano Gold, Nano Nickel, Quantum Dots, Dendrimers, Nanoclay, Nanocellulose) and End-user - Global Opportunity Analysis and Industry Forecast, 2014 - 2022

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Abstracts

Nanomaterials possess nanoscale dimensions ranging from 1 to 100 nanometers. They occur naturally or can be engineered with specific properties such as size, shape, surface, and chemistry. Volcanic ash and forest fibers are some of the examples of natural nanomaterials, whereas carbon nanotubes, quantum dots, and others are engineered nanomaterials. They have better strength, resistivity, conductivity, and optical absorption compared to the atoms. Relative-surface area is one of the key factors that enhance the properties of nanomaterials. The demand for nanomaterials has increased across diverse industry applications owing to their exceptional physio-chemical properties which enhances the performance of the end product.

The world nanomaterials market is expected to reach \$55,016 million by 2022, registering a CAGR of 20.7% from 2016 to 2022. Nanomaterials are used in environmental monitoring and remediation due to their novel chemical and physical attributes to counteract environmental pollution which is one of the important growth driver for this market. Heavy investment in R&D activities by government organizations is expected to propel the market growth. However, extended research timelines incur high cost to companies, which restricts the growth of the market.

Compared to conventional bulk materials, nanomaterials exhibit unique physical properties such as electrical, catalytic, magnetic, mechanical, thermal, or imaging features owing to which it is getting wide penetration in various end-user industries. Healthcare, electronics, and aviation industries have adopted nanomaterials for product development. The government of various countries across the globe have invested in innovations of nanomaterials. Under the National Nanotechnology Initiative, the U.S. Government allocated \$1.5 billion to support innovations and product development in the nanotechnology sector, which would lead to intense competition in the market.

The report segments the nanomaterials market on the basis of material, end user, and geography. On the basis of material, the market is segmented into carbon-based nanomaterials, metal and non-metal oxides, metals, dendrimers, nanoclay, and nanocellulose. Furthermore, carbon-based nanomaterials are segmented into carbon nanotubes, fullerenes & POSS, and graphene. The metal oxides segment is further divided into titanium dioxide, zinc dioxide, silicon dioxide, aluminum oxide, and others. The metals segment is further divided into silver, gold, nickel, and quantum dots. The nanomaterials market is also segment on the basis of end-user industries such as paints & coatings, adhesives & sealants, healthcare & life science, energy, electronics & consumer goods, personal care and others. The report is further segmented on the basis of four regions, namely, North America, Europe, Asia-Pacific, and LAMEA. Key market players profiled in the report include

Ahlstrom

Air Products and Chemicals Inc.

Arkema Group

CNano Technologies Ltd.

Daiken Chemicals

DuPont

Fuso Chemical Co., Ltd.

MKnano

Nanoco

Nanocyl S.A.

NanoIntegris

Nanophase Technologies Inc.

Nanosys Inc.

Southern Clay Products, Inc.

TDA Research

Umicore NanoMaterials

KEY MARKET BENEFITS:

This report provides an extensive analysis of the current trends and emerging dynamics of the world nanomaterials market.

In-depth analysis of the market has been done in this report based on market estimations of the key market segments for the period of 2014–2022.

The market is analyzed based on four regions, namely, North America, Europe, Asia-Pacific, and LAMEA along with the analysis of major countries in these regions.

Comprehensive analysis of factors that drive and restrict the growth of the world nanomaterials market is provided in the report.

The projections in this report are made by analyzing the current trends and future market potential from 2014 to 2022 in terms of revenue and volume.

Exhaustive analysis of the world nanomaterials market by type helps in understanding the trending products available for commercial usage.

Competitive intelligence of leading manufacturers of nanomaterials helps in understanding the competitive scenario among industry participants across

various geographies.

NANOMATERIALS MARKET SEGMENT:

The World Nanomaterials Market is segmented as below:

By Type of Material

Carbon-based Nanomaterials

Carbon Nanotubes

Fullerenes & POSS

Graphene

Metal & Non-Metal Oxides

Titanium Dioxide

Zinc Oxide

Silicon Dioxide

Aluminum Oxide

Cerium Oxide

Antimony Tin Oxide

Copper Oxide

Bismuth Oxide

Cobalt Oxide

Iron Oxide

Magnesium Oxide

Manganese Oxide

Zirconium Oxide

Metals

Silver

Gold

Nickel

Quantum Dots

Dendrimers

Nanoclay

Nanocellulose

By End-Use

Paints & Coatings

Adhesives & Sealants

Health Care & Life Science

Energy

Electronics & Consumer Goods

Personal Care

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

Italy

UK

Spain

Rest of Europe

Asia-Pacific

China

Japan

South Korea

Taiwan

Rest of Asia-Pacific

LAMEA

Brazil

Argentina

South Africa

Rest of LAMEA

Company profiles

Ahlstrom

Air Products and Chemicals Inc.

Arkema Group

CNano Technologies Ltd.

Daiken Chemicals

DuPont

Fuso Chemical Co., Ltd.

MKnano, Nanoco, Nanocyl S.A.

NanoIntegris, Nanophase Technologies Inc.

Nanosys Inc., Southern Clay Products, Inc., TDA Research, and Umicore
NanoMaterials are provided in this report.

Contents

CHAPTER 1 INTRODUCTION

- 1.1 Report description
- 1.2 KEY MARKET BENEFITS
- 1.3 KEY MARKET SEGMENTS
- 1.4 Research methodology

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 CXO perspective

CHAPTER 3 MARKET OVERVIEW

- 3.1 Market definition and scope
- 3.2 Key findings
 - 3.2.1 Top Investment Pockets
 - 3.2.2 Top winning strategy
- 3.3 Value chain analysis
- 3.4 Porters five forces analysis
 - 3.4.1 Bargaining power of the supplier
 - 3.4.2 Bargaining power of the buyer
 - 3.4.3 Threat of substitute
 - 3.4.4 Competitive rivalry
 - 3.4.5 Threat of new entrant
- 3.5 Market dynamics
 - 3.5.1 Drivers
 - 3.5.1.1 Government funding & support for nanomaterials to serve the potential growth
 - 3.5.1.2 Partnerships & strategic alliances
 - 3.5.1.3 Decrease in price of nanomaterials
 - 3.5.2 Restraints
 - 3.5.2.1 Growing concerns over environmental impact and toxicity of Engineered nanomaterials
 - 3.5.2.2 High processing cost coupled with stringent environmental regulations
 - 3.5.3 Opportunity
 - 3.5.3.1 Significant opportunities in end-user industries
- 3.6 Regulatory Framework: Nanomaterials Market
 - 3.6.1 NORTH AMERICA

3.6.2 EUROPE

3.6.3 AUSTRALIA

3.7 Key Applications of Nanomaterials

3.8 Emerging Trends in Nanomaterials Market

CHAPTER 4 WORLD NANOMATERIALS MARKET, BY TYPE OF MATERIALS

4.1 Introduction

4.1.1 Market size and forecast

4.2 Carbon Based Nanomaterials

4.2.1 Key market trends

4.2.2 Key growth factors and opportunities

4.2.3 Market Size and Forecast

4.2.3.1 Carbon Nanotubes

4.2.3.2 Fullerenes

4.2.3.3 Graphene

4.3 Metal & Non-Metal Oxides

4.3.1 Key market trends

4.3.2 Key growth factors and opportunities

4.3.3 Market Size and Forecast

4.3.3.1 Nano Titanium Dioxide

4.3.3.2 Nano Zinc Oxide

4.3.3.3 nano Silicon Dioxide

4.3.3.4 Nano Aluminium Oxide

4.3.3.5 Nano Cerium Oxide

4.3.3.6 Nano Antimony Tin Oxide

4.3.3.7 Nano Copper Oxide

4.3.3.8 Nano Bismuth Oxide

4.3.3.9 Nano Cobalt Oxide

4.3.3.10 Nano Iron Oxide

4.3.3.11 Nano Magnesium Oxide

4.3.3.12 Nano Manganese Oxide

4.3.3.13 Nano Zirconium Oxide

4.4 Metal Based Nanomaterials

4.4.1 Key market trends

4.4.2 Key growth factors and opportunities

4.4.3 Market Size and Forecast

4.4.3.1 Nano Silver

4.4.3.2 Nano Gold

- 4.4.3.3 Nano Nickel
- 4.4.3.4 Quantum Dots
- 4.5 Dendrimers Nanomaterials
 - 4.5.1 Key market trends
 - 4.5.2 Key growth factors and opportunities
 - 4.5.3 Market Size and Forecast
- 4.6 Nanoclay
 - 4.6.1 Key market trends
 - 4.6.2 Key growth factors and opportunities
 - 4.6.3 Market Size and Forecast
- 4.7 Nanocellulose
 - 4.7.1 Key market trends
 - 4.7.2 Key growth factors and opportunities
 - 4.7.3 Market Size and Forecast

CHAPTER 5 WORLD NANOMATERIALS MARKET, BY END-USER

- 5.1 Introduction
 - 5.1.1 Market Size and forecast
- 5.2 Paint & Coatings
 - 5.2.1 Market size and forecast
- 5.3 Adhesives & Sealants
 - 5.3.1 Market size and forecast
- 5.4 Healthcare & Life science
 - 5.4.1 Market size and forecast
- 5.5 Energy
 - 5.5.1 Market size and forecast
- 5.6 Electronics & Consumer Goods
 - 5.6.1 Market size and forecast
- 5.7 Personal Care
 - 5.7.1 Market size and forecast
- 5.8 Others
 - 5.8.1 Market size and forecast

CHAPTER 6 WORLD NANOMATERIALS MARKET, BY GEOGRAPHY

- 6.1 Introduction
 - 6.1.1 Market size and forecast
- 6.2 North America

- 6.2.1 Key market trends
- 6.2.2 Key growth factors and opportunities
- 6.2.3 Market Size and Forecast
- 6.2.4 U.S.
- 6.2.5 Canada
- 6.2.6 Mexico
- 6.3 Europe
 - 6.3.1 Key market trends
 - 6.3.2 Key growth factors and opportunities
 - 6.3.3 Market Size and Forecast
 - 6.3.4 U.K.
 - 6.3.5 Germany
 - 6.3.6 France
 - 6.3.7 Spain
 - 6.3.8 Italy
 - 6.3.9 Rest of Europe
- 6.4 Asia-Pacific
 - 6.4.1 Key market trends
 - 6.4.2 Key growth factors and opportunities
 - 6.4.3 Market Size and Forecast
 - 6.4.4 China
 - 6.4.5 Japan
 - 6.4.6 Korea
 - 6.4.7 Taiwan
 - 6.4.8 Rest of Asia-Pacific
- 6.5 LAMEA
 - 6.5.1 Key market trends
 - 6.5.2 Key growth factors and opportunities
 - 6.5.3 Market Size and Forecast
 - 6.5.4 Brazil
 - 6.5.5 Argentina
 - 6.5.6 South Africa
 - 6.5.1 Rest of LAMEA

CHAPTER 7 COMPANY PROFILE

- 7.1 Ahlstrom Corporation
 - 7.1.1 Company Overview
 - 7.1.2 Company Snapshot

- 7.1.3 Operating Business Segments
- 7.1.4 Business Performance
- 7.1.5 Key Strategic Moves and Developments
- 7.2 Air Products and Chemicals, Inc.
 - 7.2.1 Company Overview
 - 7.2.2 Company Snapshot
 - 7.2.3 Operating Business Segments
 - 7.2.4 Business Performance
 - 7.2.5 Key Strategic Moves and Developments
- 7.3 THE ARKEMA GROUP
 - 7.3.1 Company Overview
 - 7.3.2 Company Snapshot
 - 7.3.3 Operating Business Segments
 - 7.3.4 Business Performance
 - 7.3.5 Key Strategic Moves and Developments
- 7.4 CNANO TECHNOLOGY LIMITED
 - 7.4.1 Company Overview
 - 7.4.2 Company Snapshot
 - 7.4.3 Operating Business Segments
 - 7.4.4 Business Performance
 - 7.4.5 Key Strategic Moves and Developments
- 7.5 DAIKIN INDUSTRIES, Ltd.
 - 7.5.1 Company Overview
 - 7.5.2 Company Snapshot
 - 7.5.3 Operating Business Segments
 - 7.5.5 Key Strategic Moves and Developments
- 7.6 E. I. DU PONT DE NEMOURS AND COMPANY
 - 7.6.1 Company Overview
 - 7.6.2 Company Snapshot
 - 7.6.3 Operating Business Segments
 - 7.6.4 Business Performance
 - 7.6.5 Key Strategic Moves and Developments
- 7.7 FUSO CHEMICAL CO., LTD.
 - 7.7.1 Company Overview
 - 7.7.2 Company Snapshot
 - 7.7.3 Operating Business Segments
 - 7.7.5 Key Strategic Moves and Developments
- 7.8 Nanoco Technologies Limited
 - 7.8.1 Company Overview

- 7.8.2 Company Snapshot
- 7.8.3 Operating Business Segments
- 7.8.5 Key Strategic Moves and Developments
- 7.9 NANOCYL S.A.
 - 7.9.1 Company Overview
 - 7.9.2 Company Snapshot
 - 7.9.3 Operating Business Segments
 - 7.9.4 Key Strategic Moves and Developments
- 7.10 NanoIntegris Inc.
 - 7.10.1 Company Overview
 - 7.10.2 Company Snapshot
 - 7.10.3 Operating Business Segments
 - 7.10.4 Key Strategic Moves and Developments
- 7.11 Nanophase Technologies Corporation
 - 7.11.1 Company Overview
 - 7.11.2 Company Snapshot
 - 7.11.3 Operating Business Segments
 - 7.11.4 Business Performance
 - 7.11.5 Key Strategic Moves and Developments
- 7.12 NANOSYS, INC
 - 7.12.1 Company Overview
 - 7.12.2 Company Snapshot
 - 7.12.3 Operating Business Segments
 - 7.12.4 Key Strategic Moves and Developments
- 7.13 TDA Research, Inc.
 - 7.13.1 Company Overview
 - 7.13.2 Company Snapshot
 - 7.13.3 Operating Business Segments
 - 7.13.4 Key Strategic Moves and Developments
- 7.14 Umicore
 - 7.14.1 Company Overview
 - 7.14.2 Company Snapshot
 - 7.14.3 Operating Business Segments
 - 7.14.5 Key Strategic Moves and Developments

List Of Tables

LIST OF TABLES

TABLE 1. ONGOING PROJECTS IN NANOELECTRONICS INDUSTRY

TABLE 2. NANOMATERIALS AND THEIR COMMERCIAL APPLICATIONS

TABLE 3. WORLD NANOMATERIALS MARKET, BY TYPE OF MATERIAL, 2014-2022 (\$MILLION)

TABLE 4. WORLD NANOMATERIALS MARKET, BY TYPE OF MATERIAL, 2014-2022 (TONS)

TABLE 5. WORLD CARBON BASED NANOMATERIALS MARKET REVENUE, BY GEOGRAPHY, 2014-2022 (\$MILLION)

TABLE 6. WORLD CARBON BASED NANOMATERIALS MARKET VOLUME, BY GEOGRAPHY, 2014-2022 (TONS)

TABLE 7. WORLD CARBON NANOTUBES MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 8. WORLD FULLERENES MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 9. WORLD GRAPHENE MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 10. WORLD METAL-OXIDES BASED NANOMATERIALS MARKET REVENUE, BY GEOGRAPHY, 2014-2022 (\$MILLION)

TABLE 11. WORLD METAL-OXIDES BASED NANOMATERIALS MARKET VOLUME, BY GEOGRAPHY, 2014-2022 (TONS)

TABLE 12. WORLD NANO TITANIUM DIOXIDE MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 13. WORLD NANO ZINC OXIDE MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 14. WORLD NANO SILICON DIOXIDE MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 15. WORLD NANO ALUMINIUM OXIDE MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 16. WORLD NANO CERIUM OXIDE MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 17. WORLD NANO ANTIMONY TIN OXIDE MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 18. WORLD NANO COPPER OXIDE MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 19. WORLD NANO BISMUTH OXIDE MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 20. WORLD NANO COBALT OXIDE MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 21. WORLD NANO IRON OXIDE MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 22. WORLD NANO MAGNESIUM OXIDE MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 23. WORLD NANO MANGANESE OXIDE MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 24. WORLD NANO ZIRCONIUM OXIDE MARKET, 2014-2022
(TONS/\$MILLION)

TABLE 25. WORLD METAL BASED NANOMATERIALS MARKET REVENUE, BY
GEOGRAPHY, 2014-2022 (\$MILLION)

TABLE 26. WORLD METAL BASED NANOMATERIALS MARKET VOLUME, BY
GEOGRAPHY, 2014-2022 (TONS)

TABLE 27. WORLD NANO SILVER MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 28. WORLD NANO GOLD MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 29. WORLD NANO NICKEL MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 30. WORLD QUANTUM DOTS MARKET, 2014-2022 (TONS/\$MILLION)

TABLE 31. WORLD DENDRIMERS NANOMATERIALS MARKET REVENUE, BY
GEOGRAPHY, 2014-2022 (\$MILLION)

TABLE 32. WORLD DENDRIMERS NANOMATERIALS MARKET VOLUME, BY
GEOGRAPHY, 2014-2022 (TONS)

TABLE 33. WORLD NANOCLAY NANOMATERIALS MARKET REVENUE, BY
GEOGRAPHY, 2014-2022 (\$MILLION)

TABLE 34. WORLD NANOCLAY NANOMATERIALS MARKET VOLUME, BY
GEOGRAPHY, 2014-2022 (TONS)

TABLE 35. WORLD NANOCELLULOSE NANOMATERIALS MARKET REVENUE, BY
GEOGRAPHY, 2014-2022 (\$MILLION)

TABLE 36. WORLD NANOCELLULOSE NANOMATERIALS MARKET VOLUME, BY
GEOGRAPHY, 2014-2022 (TONS)

TABLE 37. WORLD NANOMATERIALS MARKET, BY END USE, 2014-2022
(\$MILLION)

TABLE 38. WORLD NANOMATERIALS MARKET, BY END USE, 2014-2022 (TONS)

TABLE 39. WORLD NANOMATERIALS IN PAINTS & COATINGS, MARKET
REVENUE, BY GEOGRAPHY, 2014-2022 (\$MILLION)

TABLE 40. WORLD NANOMATERIALS IN PAINTS & COATINGS, MARKET VOLUME,
BY GEOGRAPHY, 2014-2022 (TONS)

TABLE 41. WORLD NANOMATERIALS IN ADHESIVES & SEALANTS, MARKET
REVENUE, BY GEOGRAPHY, 2014-2022 (\$MILLION)

TABLE 42. WORLD NANOMATERIALS IN ADHESIVES & SEALANTS, MARKET
VOLUME, BY GEOGRAPHY, 2014-2022 (TONS)

TABLE 43. WORLD NANOMATERIALS IN HEALTH CARE & LIFESCIENCE, MARKET
REVENUE, BY GEOGRAPHY, 2014-2022 (\$MILLION)

TABLE 44. WORLD NANOMATERIALS IN HEALTH CARE & LIFESCIENCE, MARKET
VOLUME, BY GEOGRAPHY, 2014-2022 (TONS)

TABLE 45. WORLD NANOMATERIALS IN ENERGY, MARKET REVENUE, BY
GEOGRAPHY, 2014-2022 (\$MILLION)

TABLE 46. WORLD NANOMATERIALS IN ENERGY, MARKET VOLUME, BY GEOGRAPHY, 2014-2022 (TONS)

TABLE 47. WORLD NANOMATERIALS IN ELECTRONICS & CONSUMER GOODS, MARKET REVENUE, BY GEOGRAPHY, 2014-2022 (\$MILLION)

TABLE 48. WORLD NANOMATERIALS IN ELECTRONICS & CONSUMER GOODS, MARKET VOLUME, BY GEOGRAPHY, 2014-2022 (TONS)

TABLE 49. WORLD NANOMATERIALS IN PERSONAL CARE, MARKET REVENUE, BY GEOGRAPHY, 2014-2022 (\$MILLION)

TABLE 50. WORLD NANOMATERIALS IN PERSONAL CARE, MARKET VOLUME, BY GEOGRAPHY, 2014-2022 (TONS)

TABLE 51. WORLD NANOMATERIALS IN OTHERS, MARKET REVENUE, BY GEOGRAPHY, 2014-2022 (\$MILLION)

TABLE 52. WORLD NANOMATERIALS IN OTHERS, MARKET VOLUME, BY GEOGRAPHY, 2014-2022 (TONS)

TABLE 53. WORLD NANOMATERIALS MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)

TABLE 54. WORLD NANOMATERIALS MARKET, BY GEOGRAPHY, 2014-2022 (TONS)

TABLE 55. NORTH AMERICA NANOMATERIALS MARKET, BY TYPE OF MATERIALS, 2014-2022 (\$MILLION)

TABLE 56. NORTH AMERICA NANOMATERIALS MARKET, BY TYPE OF MATERIALS, 2014-2022 (TONS)

TABLE 57. NORTH AMERICA NANOMATERIALS MARKET, BY END-USER, 2014-2022 (\$MILLION)

TABLE 58. NORTH AMERICA NANOMATERIALS MARKET, BY END-USER, 2014-2022 (TONS)

TABLE 59. EUROPE NANOMATERIALS MARKET, BY TYPE OF MATERIALS, 2014-2022 (\$MILLION)

TABLE 60. EUROPE NANOMATERIALS MARKET, BY TYPE OF MATERIALS, 2014-2022 (TONS)

TABLE 61. EUROPE NANOMATERIALS MARKET, BY END-USER, 2014-2022 (\$MILLION)

TABLE 62. EUROPE NANOMATERIALS MARKET, BY END-USER, 2014-2022 (TONS)

TABLE 63. ASIA-PACIFIC NANOMATERIALS MARKET, BY TYPE OF MATERIALS, 2014-2022 (\$MILLION)

TABLE 64. ASIA-PACIFIC NANOMATERIALS MARKET, BY TYPE OF MATERIALS, 2014-2022 (TONS)

TABLE 65. ASIA-PACIFIC NANOMATERIALS MARKET, BY END-USER, 2014-2022

(\$MILLION)

TABLE 66. ASIA-PACIFIC NANOMATERIALS MARKET, BY END-USER, 2014-2022

(TONS)

TABLE 67. LAMEA NANOMATERIALS MARKET, BY TYPE OF MATERIALS,
2014-2022 (\$MILLION)TABLE 68. LAMEA NANOMATERIALS MARKET, BY TYPE OF MATERIALS,
2014-2022 (TONS)TABLE 69. LAMEA NANOMATERIALS MARKET, BY END-USER, 2014-2022
(\$MILLION)

TABLE 70. LAMEA NANOMATERIALS MARKET, BY END-USER, 2014-2022 (TONS)

TABLE 71. AHLSTROM - COMPANY SNAPSHOT

TABLE 72. AHLSTROM - OPERATING SEGMENTS

TABLE 73. AIR PRODUCTS - COMPANY SNAPSHOT

TABLE 74. AIR PRODUCTS - OPERATING SEGMENTS

TABLE 75. ARKEMA - COMPANY SNAPSHOT

TABLE 76. ARKEMA - OPERATING SEGMENTS

TABLE 77. CNANO TECHNOLOGY - COMPANY SNAPSHOT

TABLE 78. CNANO TECHNOLOGY - OPERATING SEGMENTS

TABLE 79. DAIKIN INDUSTRIES - COMPANY SNAPSHOT

TABLE 80. DAIKIN INDUSTRIES - OPERATING SEGMENTS

TABLE 81. DUPONT - COMPANY SNAPSHOT

TABLE 82. DUPONT - OPERATING SEGMENTS

TABLE 83. FUSO CHEMICAL - COMPANY SNAPSHOT

TABLE 84. FUSO CHEMICALS - OPERATING SEGMENTS

TABLE 85. NANOCO INDUSTRIES - COMPANY SNAPSHOT

TABLE 86. NANOCYL S.A. - COMPANY SNAPSHOT

TABLE 87. NANOCYL SA. - OPERATING SEGMENTS

TABLE 88. NANOINTEGRIS - COMPANY SNAPSHOT

TABLE 89. NANOINTEGRIS- OPERATING SEGMENTS

TABLE 90. NANOPHASE - COMPANY SNAPSHOT

TABLE 91. NANOSYS - COMPANY SNAPSHOT

TABLE 92. DAIKIN INDUSTRIES - COMPANY SNAPSHOT

TABLE 93. TDA RESEARCH - OPERATING SEGMENTS

TABLE 94. UMICORE - COMPANY SNAPSHOT

TABLE 95. UMICORE- OPERATING SEGMENTS

List Of Figures

LIST OF FIGURES

- FIGURE 1. GLOBAL NANOMATERIALS MARKET SIZE, 2014-2022 (\$MILLION)
- FIGURE 2. GLOBAL NANOMATERIALS MARKET REVENUE SHARE, BY TYPE OF MATERIAL, 2015 (%)
- FIGURE 3. GLOBAL NANOMATERIALS MARKET REVENUE SHARE, BY END USER, 2015 (%)
- FIGURE 4. GLOBAL NANOMATERIALS MARKET REVENUE SHARE, BY REGION, 2015 (%)
- FIGURE 5. TOP INVESTMENT POCKETS, BY REGION
- FIGURE 6. TOP INVESTMENT POCKETS, BY END USER
- FIGURE 7. TOP WINNING STRATEGIES, 2010-2016 (%)
- FIGURE 8. WINNING STRATEGIES, BY KEY COMPANY, 2010-2016
- FIGURE 9. VALUE CHAIN ANALYSIS OF WORLD NANOMATERIALS MARKET
- FIGURE 10. PORTER'S FIVE FORCES ANALYSIS
- FIGURE 11. TOP IMPACTING FACTORS: WORLD NANOMATERIALS MARKET, 2015 VS. 2022
- FIGURE 12. MAJOR DRIVING FACTORS: WORLD NANOMATERIALS MARKET
- FIGURE 13. RESTRAINTS: WORLD NANOMATERIALS MARKET
- FIGURE 14. OPPORTUNITIES: WORLD NANOMATERIALS MARKET
- FIGURE 15. PRIMARY MARKET FOCUS OF NANOMATERIALS COMPANIES
- FIGURE 16. POTENTIAL APPLICATIONS OF NANO-ENABLED PRODUCTS IN AIRCRAFTS
- FIGURE 17. GLOBAL AIRCRAFT DELIVERIES: 2012-2016
- FIGURE 18. GLOBAL DEFENSE INDUSTRY: 2010-2015 (\$MILLION)
- FIGURE 19. GLOBAL SPORTING GOODS INDUSTRY: 2014 (\$BILLION)
- FIGURE 20. GLOBAL ELECTRONICS MARKET BY REGION: 2012 & 2015 (\$BILLION)
- FIGURE 21. GLOBAL AUTOMOTIVE SALES, 2005-2015 (MILLION UNITS)
- FIGURE 22. APPLICATION OF NANO-ENABLED PRODUCTS IN AUTOMOTIVE INDUSTRY
- FIGURE 23. U.S.: ESTIMATED CURRENT INSTALLED CAPACITY, BY TECHNOLOGY (MEGA WATT)
- FIGURE 24. EMERGING TRENDS IN NANOMATERIALS MARKET
- FIGURE 25. U.S. NANOMATERIALS MARKET, 2014-2022 (\$MILLION/TONS)
- FIGURE 26. CANADA NANOMATERIALS MARKET, 2014-2022 (\$MILLION/TONS)
- FIGURE 27. MEXICO NANOMATERIALS MARKET, 2014-2022 (\$MILLION/TONS)
- FIGURE 28. U.K. NANOMATERIALS MARKET, 2014-2022 (\$MILLION/TONS)

FIGURE 29. GERMANY NANOMATERIALS MARKET, 2014-2022 (\$MILLION/TONS)

FIGURE 30. FRANCE NANOMATERIALS MARKET, 2014-2022 (\$MILLION/TONS)

FIGURE 31. SPAIN NANOMATERIALS MARKET, 2014-2022 (\$MILLION/TONS)

FIGURE 32. ITALY NANOMATERIALS MARKET, 2014-2022 (\$MILLION/TONS)

FIGURE 33. REST OF EUROPE NANOMATERIALS MARKET, 2014-2022
(\$MILLION/TONS)

FIGURE 34. CHINA NANOMATERIALS MARKET, 2014-2022 (\$MILLION/TONS)

FIGURE 35. JAPAN NANOMATERIALS MARKET, 2014-2022 (\$MILLION/TONS)

FIGURE 36. KOREA NANOMATERIALS MARKET, 2014-2022 (\$MILLION/TONS)

FIGURE 37. TAIWAN NANOMATERIALS MARKET, 2014-2022 (\$MILLION/TONS)

FIGURE 38. REST OF ASIA-PACIFIC NANOMATERIALS MARKET, 2014-2022
(\$MILLION/TONS)

FIGURE 39. BRAZIL NANOMATERIALS MARKET, 2014-2022 (\$MILLION/TONS)

FIGURE 40. ARGENTINA NANOMATERIALS MARKET, 2014-2022 (\$MILLION/TONS)

FIGURE 41. SOUTH AFRICA NANOMATERIALS MARKET, 2014-2022
(\$MILLION/TONS)

FIGURE 42. REST OF LAMEA NANOMATERIALS MARKET, 2014-2022
(\$MILLION/TONS)

FIGURE 43. AHLSTROM: REVENUE, 2014-2015 (\$MILLION)

FIGURE 44. AHLSTROM: REVENUE BY BUSINESS SEGMENT, 2015 (%)

FIGURE 45. AHLSTROM: REVENUE BY GEOGRAPHY, 2015 (%)

FIGURE 46. AIR PRODUCTS: REVENUE, 2014-2015 (\$MILLION)

FIGURE 47. AIR PRODUCTS: REVENUE BY BUSINESS SEGMENTS, 2015 (%)

FIGURE 48. AIR PRODUCTS: REVENUE BY GEOGRAPHY, 2015 (%)

FIGURE 49. ARKEMA: REVENUE, 2014 -2015 (\$MILLION)

FIGURE 50. ARKEMA: REVENUE BY BUSINESS SEGMENTS, 2015 (%)

FIGURE 51. ARKEMA: REVENUE BY GEOGRAPHY, 2015 (%)

FIGURE 52. DAIKIN INDUSTRIES: REVENUE, 2014-2015 (\$MILLION)

FIGURE 53. DAIKIN INDUSTRIES: REVENUE BY BUSINESS SEGMENTS, 2015 (%)

FIGURE 54. DAIKIN INDUSTRIES: REVENUE BY GEOGRAPHY, 2015(%)

FIGURE 55. DUPONT: REVENUE, 2014 -2015 (\$MILLION)

FIGURE 56. DUPONT: REVENUE BY BUSINESS SEGMENTS, 2015 (%)

FIGURE 57. DUPONT: REVENUE BY GEOGRAPHY, 2015 (%)

FIGURE 58. FUSO CHEMICALS: REVENUE, 2012-2015 (\$MILLIONS)

FIGURE 59. FUSO CHEMICALS: REVENUE BY BUSINESS SEGMENTS, 2015-16 (%)

FIGURE 60. NANOCO: REVENUE, 2014-2015 (\$MILLION)

FIGURE 61. NANOCO: REVENUE BY GEOGRAPHY, 2015(%)

FIGURE 62. NANOPHASE: REVENUE, 2014-2015 (\$MILLION)

FIGURE 63. NANOPHASE: REVENUE BY MARKET, 2015(%)

FIGURE 64. UMICORE: REVENUE, 2014-2015 (\$MILLION)

FIGURE 65. UMICORE: REVENUE BY BUSINESS SEGMENTS, 2015 (%)

FIGURE 66. UMICORE: REVENUE BY GEOGRAPHY, 2015(%)

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