

Advanced Carbon Materials Market Analysis By Product (Carbon Fibers, Graphene, Carbon Nanotube, Structural Graphite, Carbon Foams) By Application (Aerospace & Defense, Energy, Electronics, Sports, Automotive, Construction) And Segment Forecasts To 2024

https://marketpublishers.com/r/A657F7554A8EN.html

Date: October 2016

Pages: 199

Price: US\$ 5,950.00 (Single User License)

ID: A657F7554A8EN

Abstracts

The global advanced carbon materials market is expected to reach USD 5.29 billion by 2024, according to a new report by Grand View Research, Inc. Growing demand for fiberglass products in construction, automotive and energy applications, as a lightweight material, is likely to have a positive impact. Furthermore, technological advancement for the development of carbon nanomaterials is expected to increase the industry penetration over the next eight years.

The demand for graphene was 481.2 tons in 2015 and is projected to witness growth in light of its increasing usage as a protective coating for manufacturing flexible electronic devices and smartphones. In addition, companies are focusing on innovation to develop products catering to niche applications. In June 2015, Sweden-based Graphensic developed a new graphene-derived resistance standard measurement kit which is capable of observing Quantum Hall effect at high temperature and low magnetic temperature.

Further key findings from the report suggest:

Energy is expected to foresee revenue growth at a CAGR of 6.8% from 2016 to 2024. Growing demand for photovoltaic (PV) cells in light of providing high efficiency as compared to conventional solar devices is expected to promote the usage of advanced



materials, particularly carbon nanotubes as filling agents.

Aerospace & defense generated revenue worth USD 1.06 billion in 2015. Increasing utilization of CFRP for manufacturing fuselage components and wing boxes for optimizing aerodynamic efficiency is likely to have a positive impact on market growth over the next eight years.

Fibers are likely to witness volume growth at a CAGR of 6.5% from 2016 to 2024. Significant demand for carbon fiber reinforced plastics (CFRP) in automotive, construction and electronics applications in light of providing excellent high initial strength-to-weight ratio is expected to remain a favorable factor.

Asia Pacific generated a revenue of USD 878.2 million in 2015 and is anticipated to witness substantial gains over the forecast period on account of the expansion of the manufacturing sector. In May 2016, Foxconn announced the establishment of Apple iPhone manufacturing facility at USD 10 billion in Maharashtra by 2020. This initiative is expected to open new markets for these advanced materials over the forecast period.

Key manufacturers include Toray Industries, Hexcel, Mitsubishi Rayon, Showa Denko, Thomas Swan, Graphenea SA, and Graphene Laboratories. Companies are focusing on new product development and formation of strategic alliances with technological companies. For instance, in July 2016, Showa Denko developed a new grade of carbon nanotube under the brand name, VGCFTM-X, with optimized design for resin composite applications.



Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Research Methodology
- 1.2. Research Scope & Assumptions
- 1.3. List of Data Sources
- 1.4. List of Abbreviations

CHAPTER 2. EXECUTIVE SUMMARY

CHAPTER 3. MARKET SUMMARY

CHAPTER 4. MARKET VARIABLES, TRENDS & SCOPE

- 4.1. Market Segmentation & Scope
- 4.2. Penetration & Growth Prospect Mapping
- 4.3. Value Chain Analysis
- 4.4. Raw Material Analysis, 2013 2024
- 4.5. Regulatory Framework
- 4.6. Market Dynamics
 - 4.6.1. Market Driver Analysis
 - 4.6.1.1. Significant gains in plastics industry
 - 4.6.1.2. Favorable scenario in electronics sector
 - 4.6.1.3. Rising demand for lightweight automotive materials
 - 4.6.2. Market Restraint Analysis
 - 4.6.2.1. Credible threat from internal and external substitutes
- 4.7. Industry Analysis Porter's
- 4.8. PESTEL Analysis
- 4.9. Price trend analysis, 2013 2024

CHAPTER 5. MARKET CATEGORIZATION 1: PRODUCT ESTIMATES & TREND ANALYSIS

- 5.1. Product Movement Analysis & Market Share, 2015 & 2024
- 5.2. Market Size & Forecasts and Trend Analyses, 2013 to 2024 for the following,
 - 5.2.1. Carbon Fibers
 - 5.2.1.1. Market estimates and forecasts, 2013 2024
 - 5.2.2. Structural Graphite



- 5.2.2.1. Market estimates and forecasts, 2013 2024
- 5.2.3. Carbon Nanotubes
 - 5.2.3.1. Market estimates and forecasts, 2013 2024
- 5.2.4. Graphene
 - 5.2.4.1. Market estimates and forecasts, 2013 2024
- 5.2.5. Carbon Foams
 - 5.2.5.1. Market estimates and forecasts, 2013 2024

CHAPTER 6. MARKET CATEGORIZATION 2: APPLICATION ESTIMATES & TREND ANALYSIS

- 6.1. Application Movement Analysis & Market Share, 2015 & 2024
- 6.2. Market Size & Forecasts and Trend Analyses, 2013 to 2024 for the following,
 - 6.2.1. Aerospace & defense
 - 6.2.1.1. Market estimates and forecasts, 2013 2024
 - 6.2.2. Energy
 - 6.2.2.1. Market estimates and forecasts, 2013 2024
 - 6.2.3. Electronics
 - 6.2.3.1. Market estimates and forecasts, 2013 2024
 - 6.2.4. Sports
 - 6.2.4.1. Market estimates and forecasts, 2013 2024
 - 6.2.5. Automotive
 - 6.2.5.1. Market estimates and forecasts, 2013 2024
 - 6.2.6. Construction
 - 6.2.6.1. Market estimates and forecasts, 2013 2024
 - 6.2.7. Others
 - 6.2.7.1. Market estimates and forecasts, 2013 2024

CHAPTER 7. MARKET CATEGORIZATION 3: REGIONAL ESTIMATES & TREND ANALYSIS

- 7.1. Regional Movement Analysis & Market Share, 2015 & 2024
- 7.2. Market Size & Forecasts and Trend Analyses, 2013 to 2024 for the following Regions:
 - 7.2.1. North America
 - 7.2.1.1. Market estimates and forecasts, 2013 2024
 - 7.2.1.2. Market estimates and forecasts, by product, 2013 2024
 - 7.2.1.3. Market estimates and forecasts, by application, 2013 2024
 - 7.2.1.4. U.S.



- 7.2.1.4.1. Market estimates and forecasts, 2013 2024
- 7.2.1.4.2. Market estimates and forecasts, by product, 2013 2024
- 7.2.1.4.3. Market estimates and forecasts, by application, 2013 2024

7.2.2. Europe

- 7.2.2.1. Market estimates and forecasts, 2013 2024
- 7.2.2.2. Market estimates and forecasts, by product, 2013 2024
- 7.2.2.3. Market estimates and forecasts, by application, 2013 2024
- 7.2.2.4. Germany
- 7.2.2.4.1. Market estimates and forecasts, 2013 2024
- 7.2.2.4.2. Market estimates and forecasts, by product, 2013 2024
- 7.2.2.4.3. Market estimates and forecasts, by application, 2013 2024

7.2.2.5. UK

- 7.2.2.5.1. Market estimates and forecasts, 2013 2024
- 7.2.2.5.2. Market estimates and forecasts, by product, 2013 2024
- 7.2.2.5.3. Market estimates and forecasts, by application, 2013 2024

7.2.3. Asia Pacific

- 7.2.3.1. Market estimates and forecasts, 2013 2024
- 7.2.3.2. Market estimates and forecasts, by product, 2013 2024
- 7.2.3.3. Market estimates and forecasts, by application, 2013 2024

7.2.3.4. China

- 7.2.3.4.1. Market estimates and forecasts, 2013 2024
- 7.2.3.4.2. Market estimates and forecasts, by product, 2013 2024
- 7.2.3.4.3. Market estimates and forecasts, by application, 2013 2024

7.2.3.5. Japan

- 7.2.3.5.1. Market estimates and forecasts, 2013 2024
- 7.2.3.5.2. Market estimates and forecasts, by product, 2013 2024
- 7.2.3.5.3. Market estimates and forecasts, by application, 2013 2024

7.2.4. Latin America

- 7.2.4.1. Market estimates and forecasts, 2013 2024
- 7.2.4.2. Market estimates and forecasts, by product, 2013 2024
- 7.2.4.3. Market estimates and forecasts, by application, 2013 2024

7.2.4.4. Brazil

- 7.2.4.4.1. Market estimates and forecasts, 2013 2024
- 7.2.4.4.2. Market estimates and forecasts, by product, 2013 2024
- 7.2.4.4.3. Market estimates and forecasts, by application, 2013 2024

7.2.5. Middle East & Africa

- 7.2.5.1. Market estimates and forecasts, 2013 2024
- 7.2.5.2. Market estimates and forecasts, by product, 2013 2024
- 7.2.5.3. Market estimates and forecasts, by application, 2013 2024



CHAPTER 8. COMPETITIVE LANDSCAPE

- 8.1. Company Ranking Analysis
- 8.2. Vendor Landscape
- 8.3. Competitive Environment
- 8.4. Company Market Positioning
- 8.5. Strategy Framework

CHAPTER 9. COMPANY PROFILES

- 9.1. CNano Technology
 - 9.1.1. Company Overview
 - 9.1.2. Financial Performance
 - 9.1.3. Product Benchmarking
 - 9.1.4. Strategic Initiatives
- 9.2. Anaori Carbon Co. Ltd.
 - 9.2.1. Company Overview
 - 9.2.2. Financial Performance
 - 9.2.3. Product Benchmarking
 - 9.2.4. Strategic Initiatives
- 9.3. Grupo Antolin Ingenieria S.A.
 - 9.3.1. Company Overview
 - 9.3.2. Financial Performance
 - 9.3.3. Product Benchmarking
 - 9.3.4. Strategic Initiatives
- 9.4. Graphenano,
 - 9.4.1. Company Overview
 - 9.4.2. Financial Performance
 - 9.4.3. Product Benchmarking
 - 9.4.4. Strategic Initiatives
- 9.5. Graphenea
 - 9.5.1. Company Overview
 - 9.5.2. Financial Performance
 - 9.5.3. Product Benchmarking
 - 9.5.4. Strategic Initiatives
- 9.6. CVD Equipment Corporation
 - 9.6.1. Company Overview
 - 9.6.2. Financial Performance



- 9.6.3. Product Benchmarking
- 9.6.4. Strategic Initiatives
- 9.7. Haydale Graphene Industries PLC
 - 9.7.1. Company Overview
 - 9.7.2. Financial Performance
 - 9.7.3. Product Benchmarking
 - 9.7.4. Strategic Initiatives
- 9.8. Showa Denko K.K.
 - 9.8.1. Company Overview
 - 9.8.2. Financial Performance
 - 9.8.3. Product Benchmarking
 - 9.8.4. Strategic Initiatives
- 9.9. Mitsubishi Rayon
 - 9.9.1. Company Overview
 - 9.9.2. Financial Performance
 - 9.9.3. Product Benchmarking
 - 9.9.4. Strategic Initiatives
- 9.10. Hexcel
 - 9.10.1. Company Overview
 - 9.10.2. Financial Performance
 - 9.10.3. Product Benchmarking
 - 9.10.4. Strategic Initiatives
- 9.11. Zoltek
 - 9.11.1. Company Overview
 - 9.11.2. Financial Performance
 - 9.11.3. Product Benchmarking
 - 9.11.4. Strategic Initiatives
- 9.12. Arkema S.A.
 - 9.12.1. Company Overview
 - 9.12.2. Financial Performance
 - 9.12.3. Product Benchmarking
 - 9.12.4. Strategic Initiatives
- 9.13. FutureCarbon
 - 9.13.1. Company Overview
 - 9.13.2. Financial Performance
 - 9.13.3. Product Benchmarking
 - 9.13.4. Strategic Initiatives
- 9.14. Nanothinx S.A.
- 9.14.1. Company Overview



- 9.14.2. Financial Performance
- 9.14.3. Product Benchmarking
- 9.14.4. Strategic Initiatives
- 9.15. Nippon Graphite Fiber Corporation
 - 9.15.1. Company Overview
 - 9.15.2. Financial Performance
 - 9.15.3. Product Benchmarking
 - 9.15.4. Strategic Initiatives
- 9.16. Taiwan Carbon Technology Co. Ltd.
 - 9.16.1. Company Overview
 - 9.16.2. Financial Performance
 - 9.16.3. Product Benchmarking
 - 9.16.4. Strategic Initiatives
- 9.17. Mersen Group
 - 9.17.1. Company Overview
 - 9.17.2. Financial Performance
 - 9.17.3. Product Benchmarking
 - 9.17.4. Strategic Initiatives
- 9.18. Toho Tenax Co. Ltd.
 - 9.18.1. Company Overview
 - 9.18.2. Financial Performance
 - 9.18.3. Product Benchmarking
 - 9.18.4. Strategic Initiatives
- 9.19. Toray Industries
 - 9.19.1. Company Overview
 - 9.19.2. Financial Performance
 - 9.19.3. Product Benchmarking
 - 9.19.4. Strategic Initiatives
- 9.20. Unidym Inc.
 - 9.20.1. Company Overview
 - 9.20.2. Financial Performance
 - 9.20.3. Product Benchmarking
 - 9.20.4. Strategic Initiatives
- 9.21. Hanwha Chemical Co. Ltd.
 - 9.21.1. Company Overview
 - 9.21.2. Financial Performance
 - 9.21.3. Product Benchmarking
 - 9.21.4. Strategic Initiatives
- 9.22. Arry International Group Ltd.



- 9.22.1. Company Overview
- 9.22.2. Financial Performance
- 9.22.3. Product Benchmarking
- 9.22.4. Strategic Initiatives
- 9.23. Thomas Swan
 - 9.23.1. Company Overview
 - 9.23.2. Financial Performance
 - 9.23.3. Product Benchmarking
- 9.23.4. Strategic Initiatives



List Of Tables

LIST OF TABLES

- 1. Global carbon fibers market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 2. Global structural graphite market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 3. Global carbon nanotubes market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 4. Global graphene market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 5. Global carbon foams market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 6. Global advanced carbon materials market and estimates for aerospace & defense, 2013 2024 (Tons) (USD Million)
- 7. Global advanced carbon materials market and estimates for energy, 2013 2024 (Tons) (USD Million)
- 8. Global advanced carbon materials market and estimates for electronics, 2013 2024 (Tons) (USD Million)
- Global advanced carbon materials market and estimates for sports, 2013 2024(Tons) (USD Million)
- 10. Global advanced carbon materials market and estimates for automotive, 2013 2024 (Tons) (USD Million)
- 11. Global advanced carbon materials market and estimates for construction, 2013 2024 (Tons) (USD Million)
- 12. Global advanced carbon materials market and estimates for other applications, 2013 2024 (Tons) (USD Million)
- 13. North America advanced carbon materials market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 14. North America advanced carbon materials market volume, by product, 2013 2024 (Tons)
- 15. North America advanced carbon materials market revenue, by product, 2013 2024 (USD Million)
- 16. North America advanced carbon materials market volume, by application, 2013 2024 (Tons)
- 17. North America advanced carbon materials market revenue, by application, 2013 2024 (USD Million)
- 18. U.S. advanced carbon materials market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 19. U.S. advanced carbon materials market volume, by product, 2013 2024 (Tons)



- 20. U.S. advanced carbon materials market revenue, by product, 2013 2024 (USD Million)
- 21. U.S. advanced carbon materials market volume, by application, 2013 2024 (Tons)
- 22. U.S. advanced carbon materials market revenue, by application, 2013 2024 (USD Million)
- 23. Europe advanced carbon materials market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 24. Europe advanced carbon materials market volume, by product, 2013 2024 (Tons)
- 25. Europe advanced carbon materials market revenue, by product, 2013 2024 (USD Million)
- 26. Europe advanced carbon materials market volume, by application, 2013 2024 (Tons)
- 27. Europe advanced carbon materials market revenue, by application, 2013 2024 (USD Million)
- 28. Germany advanced carbon materials market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 29. Germany advanced carbon materials market volume, by product, 2013 2024 (Tons)
- 30. Germany advanced carbon materials market revenue, by product, 2013 2024 (USD Million)
- 31. Germany advanced carbon materials market volume, by application, 2013 2024 (Tons)
- 32. Germany advanced carbon materials market revenue, by application, 2013 2024 (USD Million)
- 33. UK advanced carbon materials market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 34. UK advanced carbon materials market volume, by product, 2013 2024 (Tons)
- 35. UK advanced carbon materials market revenue, by product, 2013 2024 (USD Million)
- 36. UK advanced carbon materials market volume, by application, 2013 2024 (Tons)
- 37. UK advanced carbon materials market revenue, by application, 2013 2024 (USD Million)
- 38. Asia Pacific advanced carbon materials market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 39. Asia Pacific advanced carbon materials market volume, by product, 2013 2024 (Tons)
- 40. Asia Pacific advanced carbon materials market revenue, by product, 2013 2024 (USD Million)
- 41. Asia Pacific advanced carbon materials market volume, by application, 2013 2024



(Tons)

- 42. Asia Pacific advanced carbon materials market revenue, by application, 2013 2024 (USD Million)
- 43. China advanced carbon materials market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 44. China advanced carbon materials market volume, by product, 2013 2024 (Tons)
- 45. China advanced carbon materials market revenue, by product, 2013 2024 (USD Million)
- 46. China advanced carbon materials market volume, by application, 2013 2024 (Tons)
- 47. China advanced carbon materials market revenue, by application, 2013 2024 (USD Million)
- 48. Japan advanced carbon materials market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 49. Japan advanced carbon materials market volume, by product, 2013 2024 (Tons)
- 50. Japan advanced carbon materials market revenue, by product, 2013 2024 (USD Million)
- 51. Japan advanced carbon materials market volume, by application, 2013 2024 (Tons)
- 52. Japan advanced carbon materials market revenue, by application, 2013 2024 (USD Million)
- 53. Latin America advanced carbon materials market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 54. Latin America advanced carbon materials market volume, by product, 2013 2024 (Tons)
- 55. Latin America advanced carbon materials market revenue, by product, 2013 2024 (USD Million)
- 56. Latin America advanced carbon materials market volume, by application, 2013 2024 (Tons)
- 57. Latin America advanced carbon materials market revenue, by application, 2013 2024 (USD Million)
- 58. Brazil advanced carbon materials market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 59. Brazil advanced carbon materials market volume, by product, 2013 2024 (Tons)
- 60. Brazil advanced carbon materials market revenue, by product, 2013 2024 (USD Million)
- 61. Brazil advanced carbon materials market volume, by application, 2013 2024 (Tons)
- 62. Brazil advanced carbon materials market revenue, by application, 2013 2024 (USD



Million)

- 63. MEA advanced carbon materials market estimates and forecast, 2013 2024 (Tons) (USD Million)
- 64. MEA advanced carbon materials market volume, by product, 2013 2024 (Tons)
- 65. MEA advanced carbon materials market revenue, by product, 2013 2024 (USD Million)
- 66. MEA advanced carbon materials market volume, by application, 2013 2024 (Tons)
- 67. MEA advanced carbon materials market revenue, by application, 2013 2024 (USD Million)



List Of Figures

LIST OF FIGURES

- 1. Market summary
- 2. Market segmentation & scope
- 3. Penetration & growth prospect mapping
- 4. Advanced carbon materials market value chain analysis
- 5. Advanced carbon materials market dynamics
- 6. Global electronics industry, 2011 2015 (USD Billion)
- 7. Global automobile production, 2011 2015 (Million Units)
- 8. Advanced carbon materials market Porter's analysis
- 9. Advanced carbon materials PESTEL Analysis
- 10. Global advanced materials market volume, by product 2015
- 11. Global advanced materials market volume, by application, 2015
- 12. Global advanced materials market volume, by region, 2015



I would like to order

Product name: Advanced Carbon Materials Market Analysis By Product (Carbon Fibers, Graphene,

Carbon Nanotube, Structural Graphite, Carbon Foams) By Application (Aerospace & Defense, Energy, Electronics, Sports, Automotive, Construction) And Segment Forecasts

To 2024

Product link: https://marketpublishers.com/r/A657F7554A8EN.html

Price: US\$ 5,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/A657F7554A8EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html



To place an order via fax simply print this form, fill in the information below and fax the completed form to $+44\ 20\ 7900\ 3970$