

Middle East & Africa Advanced Carbon Materials Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Product Type [Graphite (Natural Graphite and Synthetic Graphite), Carbon Nanotubes (Multi-Walled Carbon Nanotubes and Single-Walled Carbon Nanotubes), Graphene, Carbon Fibers (PAN-Based and PITCH-Based), Carbon Foams and Others] and Application [Electronics and Semiconductors (Integrated Circuits, Flexible Displays, Superconductors, Transistors, Industrial Sensors, and Others), Energy Storage (Lithium-Ion Batteries, Fuel Cells, Solar PV Cells, Hydrogen Storage, Electrochemical Supercapacitors, and Others), Structural Composites (Sporting Goods, Wind Turbine Blades, Light Vehicle or Automotive, Construction and Infrastructure, and Aerospace and Defense), Chemical Materials and Polymers (Coatings Adhesives and Sealants, Water Filtration, Catalysts, and Others), Medical (Transdermal Drug Delivery, Cancer Treatment, Proteomics, and Others), and Others]

<https://marketpublishers.com/r/MCC4973CD492EN.html>

Date: January 2025

Pages: 230

Price: US\$ 3,450.00 (Single User License)

ID: MCC4973CD492EN

Abstracts

The advanced carbon materials market in the Middle East and Africa is projected to grow significantly, reaching an estimated US\$ 3,837.60 million by 2031, up from US\$ 2,358.81 million in 2023. This growth represents a compound annual growth rate (CAGR) of 6.3% from 2023 to 2031.

Executive Summary and Market Analysis

The automotive sector in the Middle East and Africa is experiencing rapid growth, driven by rising disposable incomes and an expanding population. Governments in the region are implementing ambitious targets to achieve zero emissions, which is further propelling the demand for advanced carbon materials. For example, in October 2021, the UAE government launched the UAE Net Zero by 2050 initiative, aimed at significantly reducing carbon emissions. This initiative has led to an increased demand for lightweight vehicles, which are essential for meeting these environmental goals.

In addition to the automotive industry, the construction sector in the region is robust and innovative. The growth of the construction industry is fueled by a surge in commercial and residential projects, supported by factors such as tax-free cities, attractive returns on investment, and accessible financing options. A notable example is the announcement by ARA, a real estate development company, of a US\$ 6 billion residential township project called Arabian Hills Estate in Abu Dhabi, set to launch in April 2024. This expansion in construction and structural composite industries is driving the demand for advanced carbon materials.

Strategic Insights

The advanced carbon materials market in the Middle East and Africa can be segmented based on product type and application.

Product Type Segmentation:

The market is divided into several product categories, including graphite, carbon nanotubes (CNTs), graphene, carbon foams, and others. In 2023, the graphite segment held the largest market share. Graphite is further categorized into natural and synthetic types. The carbon nanotubes segment is divided into Multi-Walled Carbon Nanotubes (MWCNTs) and Single-Walled Carbon Nanotubes (SWCNTs). The graphene segment is classified into PAN-based and PITCH-based types, while carbon fibers are also

categorized into PAN-based and PITCH-based.

Application Segmentation:

The market is also segmented by application, which includes electronics and semiconductors, energy storage, structural composites, chemical materials and polymers, medical applications, and others. The energy storage segment was the largest in 2023. Within the electronics and semiconductors segment, applications include integrated circuits, flexible displays, superconductors, transistors, and industrial sensors. The energy storage segment encompasses lithium-ion batteries, fuel cells, solar PV cells, hydrogen storage, and electrochemical supercapacitors. The structural composites segment includes applications in sporting goods, wind turbine blades, light vehicles, construction and infrastructure, and aerospace and defense. The chemical materials and polymers segment covers coatings, adhesives, sealants, water filtration, and catalysts, while the medical segment includes transdermal drug delivery and cancer treatment.

Market Outlook

The shift towards clean and renewable energy sources is gaining momentum as nonrenewable resources deplete. Countries are increasingly focusing on generating clean energy to minimize carbon footprints. As global efforts to transition away from fossil fuels intensify, renewable energy sources such as solar, wind, and hydropower are becoming more critical. However, these energy sources face challenges related to storage and efficiency. Advanced carbon materials, including graphite, CNTs, and graphene, are being increasingly utilized to enhance the performance of energy storage systems and overall renewable energy infrastructure. According to the International Energy Agency, the cumulative renewable electricity capacity from wind is expected to rise from 825.1 gigawatts (GW) in 2021 to 1,255.9 GW by 2024, while solar PV capacity is projected to grow from 949.0 GW to 1,954.6 GW in the same period. This growth in renewable energy investments will likely create lucrative opportunities for the advanced carbon materials market in the coming years.

Country Insights

The advanced carbon materials market in the Middle East and Africa includes key countries such as South Africa, Saudi Arabia, the UAE, and others. In 2023, Saudi Arabia held the largest market share, driven by its extensive large-scale construction and infrastructure projects. The country is focusing on sustainable development and

economic diversification, which is expected to significantly boost its construction industry. According to the International Trade Administration (ITA), the construction sector in Saudi Arabia is projected to generate revenues of US\$ 70.33 billion by the end of 2024 and US\$ 91.36 billion by 2029. This growth in construction is anticipated to further increase the demand for advanced carbon materials in Saudi Arabia.

Company Profiles

Key players in the advanced carbon materials market include Nanocyl SA, Teijin Ltd, Arkema SA, LG Chem Ltd, Cabot Corp, Kumho Petrochemical Co Ltd, Tokyo Chemical Industry Co Ltd, Nanoshel LLC, Zeon Corp, Mitsubishi Chemical Carbon Fiber and Composites Inc, Resonac Holdings Corp, Huntsman International LLC, Ocsial, Sumitomo Chemical Co Ltd, and MOLCHEM, among others. These companies are employing various strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative products to consumers.

Contents

1. INTRODUCTION

- 1.1 Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macroeconomic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:
 - 3.2.5 Country-level data:

4. MIDDLE EAST & AFRICA ADVANCED CARBON MATERIALS MARKET LANDSCAPE

- 4.1 Overview
- 4.2 Porter's Five Forces Analysis
 - 4.2.1 Threat of New Entrants:
 - 4.2.2 Bargaining Power of Suppliers:
 - 4.2.3 Bargaining Power of Buyers:
 - 4.2.4 Competitive Rivalry:
 - 4.2.5 Threat of Substitutes:
- 4.3 Ecosystem Analysis
 - 4.3.1 Raw Material Suppliers:
 - 4.3.2 Manufacturers:
 - 4.3.3 Distributors or Suppliers:
 - 4.3.4 End-Use Industry:

5. MIDDLE EAST & AFRICA ADVANCED CARBON MATERIALS MARKET - KEY

MARKET DYNAMICS

5.1 Market Drivers

5.1.1 Growing Demand for Lightweight Materials

5.1.2 Increasing Demand for Advanced Carbon Materials for Energy Storage

Applications

5.2 Market Restraints

5.2.1 High Cost and Complex Manufacturing Process

5.3 Market Opportunities

5.3.1 Growing Demand for Renewable Energy

5.3.2 Adoption of Advanced Carbon Materials for Cancer Treatment

5.4 Future Trends

5.4.1 Growing Focus on Recycling and 3D Printing

5.5 Impact Analysis

6. ADVANCED CARBON MATERIALS MARKET - MIDDLE EAST & AFRICA ANALYSIS

6.1 Middle East & Africa Advanced Carbon Materials Market Volume (Tons), 2021-2031

6.2 Middle East & Africa Advanced Carbon Materials Market Volume Forecast and Analysis (Tons)

6.3 Middle East & Africa Advanced Carbon Materials Market Revenue (US\$ Million), 2023-2031

6.4 Middle East & Africa Advanced Carbon Materials Market Forecast and Analysis

7. MIDDLE EAST & AFRICA ADVANCED CARBON MATERIALS MARKET VOLUME AND REVENUE ANALYSIS - BY PRODUCT TYPE

7.1 Graphite

7.1.1 Overview

7.1.2 Graphite: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

7.1.3 Graphite: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

7.2 Natural Graphite

7.2.1 Overview

7.2.2 Natural Graphite: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

7.2.3 Natural Graphite: Middle East & Africa Advanced Carbon Materials Market -

Revenue and Forecast, 2021-2031 (US\$ Million)

7.3 Synthetic Graphite

7.3.1 Overview

7.3.2 Synthetic Graphite: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

7.3.3 Synthetic Graphite: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

7.4 Carbon Nanotubes

7.4.1 Overview

7.4.2 Carbon Nanotubes: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

7.4.3 Carbon Nanotubes: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

7.5 Multi-Walled Carbon Nanotubes

7.5.1 Overview

7.5.2 Multi-Walled Carbon Nanotubes: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

7.5.3 Multi-Walled Carbon Nanotubes: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

7.6 Single-Walled Carbon Nanotubes

7.6.1 Overview

7.6.2 Single-Walled Carbon Nanotubes: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

7.6.3 Single-Walled Carbon Nanotubes: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

7.7 Graphene

7.7.1 Graphene: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

7.7.2 Graphene: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

7.8 Carbon Fibers

7.8.1 Carbon Fibers: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

7.8.2 Carbon Fibers: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

7.9 PAN-Based

7.9.1 PAN-Based: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

7.9.2 PAN-Based: Middle East & Africa Advanced Carbon Materials Market - Revenue

and Forecast, 2021-2031 (US\$ Million)

7.10 PITCH-Based

7.10.1 PITCH-Based: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

7.10.2 PITCH-Based: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

7.11 Carbon Foams

7.11.1 Carbon Foams: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

7.11.2 Carbon Foams: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

7.12 Others

7.12.1 Others: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

7.12.2 Others: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8. MIDDLE EAST & AFRICA ADVANCED CARBON MATERIALS MARKET REVENUE ANALYSIS - BY APPLICATION

8.1 Electronics and Semiconductors

8.1.1 Overview

8.1.2 Electronics and Semiconductors: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.2 Integrated Circuits

8.2.1 Overview

8.2.2 Integrated Circuits: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.3 Flexible Displays

8.3.1 Overview

8.3.2 Flexible Displays: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.4 Superconductors

8.4.1 Overview

8.4.2 Superconductors: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.5 Transistors

8.5.1 Overview

8.5.2 Transistors: Middle East & Africa Advanced Carbon Materials Market - Revenue

and Forecast, 2021-2031 (US\$ Million)

8.6 Industrial Sensors

8.6.1 Overview

8.6.2 Industrial Sensors: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.7 Others

8.7.1 Overview

8.7.2 Others: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.8 Energy Storage

8.8.1 Overview

8.8.2 Energy Storage: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.9 Lithium-Ion Batteries

8.9.1 Overview

8.9.2 Lithium-Ion Batteries: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.10 Fuel Cells

8.10.1 Overview

8.10.2 Fuel Cells: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.11 Solar PV Cells

8.11.1 Overview

8.11.2 Solar PV Cells: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.12 Hydrogen Storage

8.12.1 Overview

8.12.2 Hydrogen Storage: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.13 Electrochemical Supercapacitors

8.13.1 Overview

8.13.2 Electrochemical Supercapacitors: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.14 Others ES

8.14.1 Overview

8.14.2 Others ES: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.15 Structural Composites

8.15.1 Overview

8.15.2 Structural Composites: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.16 Sporting Goods

8.16.1 Overview

8.16.2 Sporting Goods: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.17 Wind Turbine Blades

8.17.1 Overview

8.17.2 Wind Turbine Blades: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.18 Light Vehicle or Automotive

8.18.1 Overview

8.18.2 Light Vehicle or Automotive: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.19 Construction and Infrastructure

8.19.1 Overview

8.19.2 Construction and Infrastructure: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.20 Aerospace and Defense

8.20.1 Overview

8.20.2 Aerospace and Defense: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.21 Chemical Materials and Polymers

8.21.1 Overview

8.21.2 Chemical Materials and Polymers: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.22 Coatings Adhesives and Sealants

8.22.1 Overview

8.22.2 Coatings Adhesives and Sealants: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.23 Water Filtration

8.23.1 Overview

8.23.2 Water Filtration: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.24 Catalysts

8.24.1 Overview

8.24.2 Catalysts: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.25 Others

8.25.1 Overview

8.25.2 Others CMP: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.26 Medical

8.26.1 Overview

8.26.2 Medical: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.27 Transdermal Drug Delivery

8.27.1 Overview

8.27.2 Transdermal Drug Delivery: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.28 Cancer Treatment

8.28.1 Overview

8.28.2 Cancer Treatment: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.29 Proteomics

8.29.1 Overview

8.29.2 Proteomics: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.30 Others

8.30.1 Overview

8.30.2 Others ME: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

8.31 Others

8.31.1 Overview

8.31.2 Others: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

9. MIDDLE EAST & AFRICA ADVANCED CARBON MATERIALS MARKET - COUNTRY ANALYSIS

9.1 Middle East & Africa

9.1.1 Middle East & Africa Advanced Carbon Materials Market Revenue and Forecast and Analysis - by Country

9.1.1.1 Middle East & Africa Advanced Carbon Materials Market Volume and Forecast and Analysis - by Country

9.1.1.2 Middle East & Africa Advanced Carbon Materials Market Revenue and Forecast and Analysis - by Country

9.1.1.3 South Africa: Middle East & Africa Advanced Carbon Materials Market -

Revenue and Forecast, 2021-2031 (US\$ Million)

9.1.1.3.1 South Africa: Middle East & Africa Advanced Carbon Materials Market Share - by Product Type

9.1.1.3.2 South Africa: Middle East & Africa Advanced Carbon Materials Market Share - by Application

9.1.1.4 Saudi Arabia: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

9.1.1.4.1 Saudi Arabia: Middle East & Africa Advanced Carbon Materials Market Share - by Product Type

9.1.1.4.2 Saudi Arabia: Middle East & Africa Advanced Carbon Materials Market Share - by Application

9.1.1.5 United Arab Emirates: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

9.1.1.5.1 United Arab Emirates: Middle East & Africa Advanced Carbon Materials Market Share - by Product Type

9.1.1.5.2 United Arab Emirates: Middle East & Africa Advanced Carbon Materials Market Share - by Application

9.1.1.6 Rest of Middle East & Africa: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

9.1.1.6.1 Rest of Middle East & Africa: Middle East & Africa Advanced Carbon Materials Market Share - by Product Type

9.1.1.6.2 Rest of Middle East & Africa: Middle East & Africa Advanced Carbon Materials Market Share - by Application

10. COMPETITIVE LANDSCAPE

10.1 Heat Map Analysis by Key Players

10.2 Company Positioning and Concentration

11. INDUSTRY LANDSCAPE

11.1 Overview

11.2 Collaboration

11.3 Expansions

11.4 New Product Launch

11.5 Other Developments

12. COMPANY PROFILES

12.1 Nanocyl SA

12.1.1 Key Facts

12.1.2 Business Description

12.1.3 Products and Services

12.1.4 Financial Overview

12.1.5 SWOT Analysis

12.1.6 Key Developments

12.2 Teijin Ltd

12.2.1 Key Facts

12.2.2 Business Description

12.2.3 Products and Services

12.2.4 Financial Overview

12.2.5 SWOT Analysis

12.2.6 Key Developments

12.3 Arkema SA

12.3.1 Key Facts

12.3.2 Business Description

12.3.3 Products and Services

12.3.4 Financial Overview

12.3.5 SWOT Analysis

12.3.6 Key Developments

12.4 LG Chem Ltd

12.4.1 Key Facts

12.4.2 Business Description

12.4.3 Products and Services

12.4.4 Financial Overview

12.4.5 SWOT Analysis

12.4.6 Key Developments

12.5 Cabot Corp

12.5.1 Key Facts

12.5.2 Business Description

12.5.3 Products and Services

12.5.4 Financial Overview

12.5.5 SWOT Analysis

12.5.6 Key Developments

12.6 Kumho Petrochemical Co Ltd

12.6.1 Key Facts

12.6.2 Business Description

12.6.3 Products and Services

- 12.6.4 Financial Overview
- 12.6.5 SWOT Analysis
- 12.6.6 Key Developments
- 12.7 Tokyo Chemical Industry Co Ltd
 - 12.7.1 Key Facts
 - 12.7.2 Business Description
 - 12.7.3 Products and Services
 - 12.7.4 Financial Overview
 - 12.7.5 SWOT Analysis
 - 12.7.6 Key Developments
- 12.8 Nanoshel LLC
 - 12.8.1 Key Facts
 - 12.8.2 Business Description
 - 12.8.3 Products and Services
 - 12.8.4 Financial Overview
 - 12.8.5 SWOT Analysis
 - 12.8.6 Key Developments
- 12.9 Zeon Corp
 - 12.9.1 Key Facts
 - 12.9.2 Business Description
 - 12.9.3 Products and Services
 - 12.9.4 Financial Overview
 - 12.9.5 SWOT Analysis
 - 12.9.6 Key Developments
- 12.10 Mitsubishi Chemical Carbon Fiber and Composites Inc
 - 12.10.1 Key Facts
 - 12.10.2 Business Description
 - 12.10.3 Products and Services
 - 12.10.4 Financial Overview
 - 12.10.5 SWOT Analysis
 - 12.10.6 Key Developments
- 12.11 Resonac Holdings Corp
 - 12.11.1 Key Facts
 - 12.11.2 Business Description
 - 12.11.3 Products and Services
 - 12.11.4 Financial Overview
 - 12.11.5 SWOT Analysis
 - 12.11.6 Key Developments
- 12.12 Huntsman International LLC

- 12.12.1 Key Facts
- 12.12.2 Business Description
- 12.12.3 Products and Services
- 12.12.4 Financial Overview
- 12.12.5 SWOT Analysis
- 12.12.6 Key Developments
- 12.13 Ocsial
 - 12.13.1 Key Facts
 - 12.13.2 Business Description
 - 12.13.3 Products and Services
 - 12.13.4 Financial Overview
 - 12.13.5 SWOT Analysis
 - 12.13.6 Key Developments
- 12.14 Sumitomo Chemical Co Ltd
 - 12.14.1 Key Facts
 - 12.14.2 Business Description
 - 12.14.3 Products and Services
 - 12.14.4 Financial Overview
 - 12.14.5 SWOT Analysis
 - 12.14.6 Key Developments
- 12.15 MOLCHEM
 - 12.15.1 Key Facts
 - 12.15.2 Business Description
 - 12.15.3 Products and Services
 - 12.15.4 Financial Overview
 - 12.15.5 SWOT Analysis
 - 12.15.6 Key Developments

13. APPENDIX

- 13.1 About The Insight Partners

List Of Tables

LIST OF TABLES

Table 1. Middle East & Africa Advanced Carbon Materials Market Segmentation

Table 2. Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

Table 3. Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Table 4. Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons) - by Product Type

Table 5. Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million) - by Product Type

Table 6. Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million) - by Application

Table 7. Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons) - by Country

Table 8. Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million) - by Country

Table 9. South Africa: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons) - by Product Type

Table 10. South Africa: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million) - by Product Type

Table 11. South Africa: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million) - by Application

Table 12. Saudi Arabia: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons) - by Product Type

Table 13. Saudi Arabia: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million) - by Product Type

Table 14. Saudi Arabia: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million) - by Application

Table 15. United Arab Emirates: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons) - by Product Type

Table 16. United Arab Emirates: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million) - by Product Type

Table 17. United Arab Emirates: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million) - by Application

Table 18. Rest of Middle East & Africa: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons) - by Product Type

Table 19. Rest of Middle East & Africa: Middle East & Africa Advanced Carbon

Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million) - by Product Type
Table 20. Rest of Middle East & Africa: Middle East & Africa Advanced Carbon
Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million) - by Application

List Of Figures

LIST OF FIGURES

- Figure 1. Middle East & Africa Advanced Carbon Materials Market Segmentation - Country
- Figure 2. Porter's Five Forces Analysis
- Figure 3. Ecosystem: Advanced Carbon Materials Market
- Figure 4. Middle East & Africa Advanced Carbon Materials Market - Key Market Dynamics
- Figure 5. Cumulative Renewable Electricity Capacity (GW) (2021-2024)
- Figure 6. Impact Analysis of Drivers and Restraints
- Figure 7. Middle East & Africa Advanced Carbon Materials Market Volume (Tons), 2021-2031
- Figure 8. Middle East & Africa Advanced Carbon Materials Market Revenue (US\$ Million), 2023-2031
- Figure 9. Middle East & Africa Advanced Carbon Materials Market Share (%) - Product Type, 2023 and 2031
- Figure 10. Graphite: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)
- Figure 11. Graphite: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)
- Figure 12. Natural Graphite: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)
- Figure 13. Natural Graphite: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)
- Figure 14. Synthetic Graphite: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)
- Figure 15. Synthetic Graphite: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)
- Figure 16. Carbon Nanotubes: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)
- Figure 17. Carbon Nanotubes: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)
- Figure 18. Multi-Walled Carbon Nanotubes: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)
- Figure 19. Multi-Walled Carbon Nanotubes: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)
- Figure 20. Single-Walled Carbon Nanotubes: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

Figure 21. Single-Walled Carbon Nanotubes: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 22. Graphene: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

Figure 23. Graphene: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 24. Carbon Fibers: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

Figure 25. Carbon Fibers: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 26. PAN-Based: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

Figure 27. PAN-Based: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 28. PITCH-Based: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

Figure 29. PITCH-Based: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 30. Carbon Foams: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

Figure 31. Carbon Foams: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 32. Others: Middle East & Africa Advanced Carbon Materials Market - Volume and Forecast, 2021-2031 (Tons)

Figure 33. Others: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 34. Middle East & Africa Advanced Carbon Materials Market Share (%) - Application, 2023 and 2031

Figure 35. Electronics and Semiconductors: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 36. Integrated Circuits: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 37. Flexible Displays: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 38. Superconductors: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 39. Transistors: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 40. Industrial Sensors: Middle East & Africa Advanced Carbon Materials Market -

Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 41. Others ELESEMI: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 42. Energy Storage: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 43. Lithium-Ion Batteries: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 44. Fuel Cells: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 45. Solar PV Cells: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 46. Hydrogen Storage: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 47. Electrochemical Supercapacitors: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 48. Others ES: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 49. Structural Composites: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 50. Sporting Goods: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 51. Wind Turbine Blades: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 52. Light Vehicle or Automotive: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 53. Construction and Infrastructure: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 54. Aerospace and Defense: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 55. Chemical Materials and Polymers: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 56. Coatings Adhesives and Sealants: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 57. Water Filtration: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 58. Catalysts: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 59. Others CMP: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 60. Medical: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 61. Transdermal Drug Delivery: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 62. Cancer Treatment: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 63. Proteomics: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 64. Others ME: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 65. Others: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 66. Middle East & Africa Advanced Carbon Materials Market Breakdown by Key Countries, 2023 and 2031 (%)

Figure 67. South Africa: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 68. Saudi Arabia: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 69. United Arab Emirates: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 70. Rest of Middle East & Africa: Middle East & Africa Advanced Carbon Materials Market - Revenue and Forecast, 2021-2031 (US\$ Million)

Figure 71. Heat Map Analysis by Key Players

Figure 72. Company Positioning and Concentration

I would like to order

Product name: Middle East & Africa Advanced Carbon Materials Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Product Type [Graphite (Natural Graphite and Synthetic Graphite), Carbon Nanotubes (Multi-Walled Carbon Nanotubes and Single-Walled Carbon Nanotubes), Graphene, Carbon Fibers (PAN-Based and PITCH-Based), Carbon Foams and Others] and Application [Electronics and Semiconductors (Integrated Circuits, Flexible Displays, Superconductors, Transistors, Industrial Sensors, and Others), Energy Storage (Lithium-Ion Batteries, Fuel Cells, Solar PV Cells, Hydrogen Storage, Electrochemical Supercapacitors, and Others), Structural Composites (Sporting Goods, Wind Turbine Blades, Light Vehicle or Automotive, Construction and Infrastructure, and Aerospace and Defense), Chemical Materials and Polymers (Coatings Adhesives and Sealants, Water Filtration, Catalysts, and Others), Medical (Transdermal Drug Delivery, Cancer Treatment, Proteomics, and Others), and Others]

Product link: <https://marketpublishers.com/r/MCC4973CD492EN.html>

Price: US\$ 3,450.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/MCC4973CD492EN.html>