

# Activated Carbon Market Forecast to 2028 - COVID-19 Impact and Global Analysis by Type (Granular/Extruded, Powdered, Honeycombs, Impregnated, and Reactivated) and Application (Gas & Air, Automotive, Catalyst, Chemicals, Food & Beverage, Mining, Pharmaceuticals, Water Treatment, and Others)

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## Abstracts

The activated carbon market size is expected to grow from US\$ 3,845.46 million in 2022 to US\$ 6,081.05 million by 2028; it is estimated to record a CAGR of 8.2% from 2023 to 2028.

Based on type, the global activated carbon market is segmented into granular/extruded, powdered, honeycombs, impregnated, and reactivated. The powdered segment held the largest market share in 2022. The granular/extruded segment is estimated to register the highest CAGR in the global activated carbon market during the forecast period. Granular activated carbon is utilized in gas and liquid phases for deodorization applications to eliminate natural organic matter, volatile organic compounds, and contaminants. Granular activated carbon is increasingly used owing to its properties such as structural strength, regeneration characteristics, and clean handling, as well as the feasible recovery of spent activated carbon. The gas & air segment is estimated to register the highest CAGR in the global activated carbon market during the forecast period. Activated carbon is highly used for industrial air treatment in petrochemical plants, landfill sites, manufacturing operations, and chemical processing facilities to filter hazardous pollutants such as volatile organic compounds.

Based on application, the global activated carbon market is segmented into gas & air,

automotive, catalyst, chemicals, food & beverage, mining, pharmaceuticals, water treatment, and others. The water treatment segment held the largest market share in 2022. Activated carbon is extensively used in the tertiary treatment of wastewater and various stages of wastewater treatment. Wastewater is tested and treated for various parameters such as chemical oxygen demand (COD), toxins, total organic carbon, biological oxygen demand (BOD), hydrocarbons, pesticides, cyanides, and the presence of other harmful chemicals. Over the previous years, activated carbon has been widely used in service water treatment, groundwater rehabilitation, and drinking water treatment.

Asia Pacific accounted for the largest portion of the global activated carbon market share in 2022. China and India are major contributors to the growth of the activated carbon market in Asia Pacific. According to the European Chemical Industry Council, China's share of global chemicals sales increased to 43.0% in 2021, up from 28.3% reported in 2011. An increase in the requirement for various chemicals and a subsequent rise in chemical production are expected to boost the demand for activated carbon for chemical purification and processing. Moreover, the increasing establishment of water treatment facilities and equipment in China drives the activated carbon market in the country. It is used to adsorb a large amount of small particle-sized compounds such as benzene, toluene, ethyl-benzene, xylene, and organic compounds. Further, in India, the strong growth of the food & beverages, water treatment, air & gas, chemicals, etc. industries is bolstering the activated carbon market growth.

Osaka Gas Co Ltd, Haycarb PLC, Kureha Corp, Donau Chemie AG, Activated Carbon Technologies Pty Ltd, Albemarle Corp, CPL Activated Carbons, James Cumming and Sons Pty Ltd, Ingevity Corp, and Norit Nederland BV are a few players operating in the global activated carbon market. Market players are focusing on providing high-quality products to fulfill customer demand. They are also adopting strategies such as investments in research and development activities, new product launches, collaborations, and mergers & acquisitions.

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The overall global activated carbon market size has been derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the market. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain more analytical insights into the topic. The participants of this process include industry experts such as

VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the activated carbon market.

## Contents

### **1. INTRODUCTION**

- 1.1 Study Scope
- 1.2 The Insight Partners Research Report Guidance
- 1.3 Market Segmentation
  - 1.3.1 Global Activated Carbon Market, by Type
  - 1.3.2 Global Activated Carbon Market, by Application
  - 1.3.3 Global Activated Carbon Market, by Geography

### **2. KEY TAKEAWAYS**

### **3. RESEARCH METHODOLOGY**

- 3.1 Scope of the Study
- 3.2 Research Methodology
  - 3.2.1 Data Collection:
  - 3.2.2 Primary Interviews:
  - 3.2.3 Hypothesis formulation:
  - 3.2.4 Macro-economic factor analysis:
  - 3.2.5 Developing base number:
  - 3.2.6 Data Triangulation:
  - 3.2.7 Country level data:

### **4. EXECUTIVE SUMMARY**

- 4.1 Executive Summary

### **5. FACTORS IMPACTING ACTIVATED CARBON MARKET**

- 5.1 Global Wastewater Treatment Outlook
- 5.2 Technology Trends
- 5.3 Regulations
- 5.4 Sustainability Initiatives

### **6. ACTIVATED CARBON – GLOBAL MARKET ANALYSIS**

- 6.1 Global Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)
- 6.2 Global Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
- 6.3 Price Trend Analysis, by Type, 2022 (US\$/ Ton)
- 6.4 List of Activated Carbon Manufacturers
- 6.5 Market Positioning – Activated Carbon Market Players

## **7. GLOBAL ACTIVATED CARBON MARKET ANALYSIS – BY TYPE**

- 7.1 Overview
- 7.2 Global Activated Carbon Market, By Type (2021 and 2028)
- 7.3 Granular/Extruded
  - 7.3.1 Overview
  - 7.3.2 Granular/Extruded: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
  - 7.3.3 Granular/Extruded: Activated Carbon Market – Revenue and Forecast to 2028 (US\$ Million)
- 7.4 Powdered
  - 7.4.1 Overview
  - 7.4.2 Powdered: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
  - 7.4.3 Powdered: Activated Carbon Market – Revenue and Forecast to 2028 (US\$ Million)
- 7.5 Honeycombs
  - 7.5.1 Overview
  - 7.5.2 Honeycombs: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
  - 7.5.3 Honeycombs: Activated Carbon Market – Revenue and Forecast to 2028 (US\$ Million)
- 7.6 Impregnated
  - 7.6.1 Overview
  - 7.6.2 Impregnated: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
  - 7.6.3 Impregnated: Activated Carbon Market – Revenue and Forecast to 2028 (US\$ Million)
- 7.7 Reactivated
  - 7.7.1 Overview
  - 7.7.2 Reactivated: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
  - 7.7.3 Reactivated: Activated Carbon Market – Revenue and Forecast to 2028 (US\$ Million)

## **8. GLOBAL ACTIVATED CARBON MARKET ANALYSIS – BY APPLICATION**

## 8.1 Overview

### 8.2 Global Activated Carbon Market, By Application (2021 and 2028)

#### 8.3 Gas and Air

##### 8.3.1 Overview

##### 8.3.2 Gas and Air: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)

##### 8.3.3 Gas and Air: Activated Carbon Market – Revenue and Forecast to 2028 (US\$ Million)

#### 8.4 Automotive

##### 8.4.1 Overview

##### 8.4.2 Automotive: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)

##### 8.4.3 Automotive: Activated Carbon Market – Revenue and Forecast to 2028 (US\$ Million)

#### 8.5 Catalyst

##### 8.5.1 Overview

##### 8.5.2 Catalyst: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)

##### 8.5.3 Catalyst: Activated Carbon Market – Revenue and Forecast to 2028 (US\$ Million)

#### 8.6 Chemicals

##### 8.6.1 Overview

##### 8.6.2 Chemicals: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)

##### 8.6.3 Chemicals: Activated Carbon Market – Revenue and Forecast to 2028 (US\$ Million)

#### 8.7 Food and Beverage

##### 8.7.1 Overview

##### 8.7.2 Food and Beverage: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)

##### 8.7.3 Food and Beverage: Activated Carbon Market – Revenue and Forecast to 2028 (US\$ Million)

#### 8.8 Mining

##### 8.8.1 Overview

##### 8.8.2 Mining: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)

##### 8.8.3 Mining: Activated Carbon Market – Revenue and Forecast to 2028 (US\$ Million)

#### 8.9 Pharmaceuticals

##### 8.9.1 Overview

##### 8.9.2 Pharmaceuticals: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)

##### 8.9.3 Pharmaceuticals: Activated Carbon Market – Revenue and Forecast to 2028 (US\$ Million)

#### 8.10 Water Treatment

#### 8.10.1 Overview

8.10.2 Water Treatment: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)

8.10.3 Water Treatment: Activated Carbon Market – Revenue and Forecast to 2028 (US\$ Million)

#### 8.11 Others

##### 8.11.1 Overview

8.11.2 Others: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)

8.11.3 Others: Activated Carbon Market – Revenue and Forecast to 2028 (US\$ Million)

## **9. GLOBAL ACTIVATED CARBON MARKET – GEOGRAPHIC ANALYSIS**

### 9.1 Overview

#### 9.2 North America: Activated Carbon Market

9.2.1 North America: Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)

9.2.2 North America: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)

9.2.3 North America: Activated Carbon Market, by Type

9.2.4 North America: Activated Carbon Market, by Application

9.2.5 North America: Activated Carbon Market, by Key Country

##### 9.2.5.1 Historical Trends

9.2.5.2 US: Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)

9.2.5.3 US: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)

9.2.5.3.1 US: Activated Carbon Market, by Type

9.2.5.3.2 US: Activated Carbon Market, by Type

9.2.5.3.3 US: Activated Carbon Market, by Application

9.2.5.3.4 US: Activated Carbon Market, by Application

9.2.5.4 Canada: Activated Carbon Market–Volume and Forecast to 2028 (Kilo Tons)

9.2.5.5 Canada: Activated Carbon Market–Revenue and Forecast to 2028 (US\$ Million)

9.2.5.5.1 Canada: Activated Carbon Market, by Type

9.2.5.5.2 Canada: Activated Carbon Market, by Type

9.2.5.5.3 Canada: Activated Carbon Market, by Application

9.2.5.5.4 Canada: Activated Carbon Market, by Application

9.2.5.6 Mexico: Activated Carbon Market–Volume and Forecast to 2028 (Kilo Tons)

9.2.5.7 Mexico: Activated Carbon Market–Revenue and Forecast to 2028 (US\$ Million)

9.2.5.7.1 Mexico: Activated Carbon Market, by Type

9.2.5.7.2 Mexico: Activated Carbon Market, by Type

9.2.5.7.3 Mexico: Activated Carbon Market, by Application

- 9.2.5.7.4 Mexico: Activated Carbon Market, by Application
- 9.3 Western Europe: Activated Carbon Market
  - 9.3.1 Western Europe: Activated Carbon Market–Volume and Forecast to 2028 (Kilo Tons)
  - 9.3.2 Western Europe: Activated Carbon Market–Revenue and Forecast to 2028 (US\$ Million)
  - 9.3.3 Western Europe: Activated Carbon Market, by Type
  - 9.3.4 Western Europe: Activated Carbon Market, by Application
  - 9.3.5 Western Europe: Activated Carbon Market, by Key Country
    - 9.3.5.1 Historical Trends
    - 9.3.5.2 Germany: Activated Carbon Market–Volume and Forecast to 2028 (Kilo Tons)
    - 9.3.5.3 Germany: Activated Carbon Market–Revenue and Forecast to 2028 (US\$ Million)
      - 9.3.5.3.1 Germany: Activated Carbon Market, by Type
      - 9.3.5.3.2 Germany: Activated Carbon Market, by Type
      - 9.3.5.3.3 Germany: Activated Carbon Market, by Application
      - 9.3.5.3.4 Germany: Activated Carbon Market, by Application
    - 9.3.5.4 France: Activated Carbon Market–Volume and Forecast to 2028 (Kilo Tons)
    - 9.3.5.5 France: Activated Carbon Market–Revenue and Forecast to 2028 (US\$ Million)
      - 9.3.5.5.1 France: Activated Carbon Market, by Type
      - 9.3.5.5.2 France: Activated Carbon Market, by Type
      - 9.3.5.5.3 France: Activated Carbon Market, by Application
      - 9.3.5.5.4 France: Activated Carbon Market, by Application
    - 9.3.5.6 Italy: Activated Carbon Market–Volume and Forecast to 2028 (Kilo Tons)
    - 9.3.5.7 Italy: Activated Carbon Market–Revenue and Forecast to 2028 (US\$ Million)
      - 9.3.5.7.1 Italy: Activated Carbon Market, by Type
      - 9.3.5.7.2 Italy: Activated Carbon Market, by Type
      - 9.3.5.7.3 Italy: Activated Carbon Market, by Application
      - 9.3.5.7.4 Italy: Activated Carbon Market, by Application
    - 9.3.5.8 United Kingdom: Activated Carbon Market–Volume and Forecast to 2028 (Kilo Tons)
    - 9.3.5.9 United Kingdom: Activated Carbon Market–Revenue and Forecast to 2028 (US\$ Million)
      - 9.3.5.9.1 United Kingdom: Activated Carbon Market, by Type
      - 9.3.5.9.2 United Kingdom: Activated Carbon Market, by Type
      - 9.3.5.9.3 United Kingdom: Activated Carbon Market, by Application
      - 9.3.5.9.4 United Kingdom: Activated Carbon Market, by Application
    - 9.3.5.10 Spain: Activated Carbon Market–Volume and Forecast to 2028 (Kilo Tons)
    - 9.3.5.11 Spain: Activated Carbon Market–Revenue and Forecast to 2028 (US\$ Million)



- 9.3.5.11.1 Spain: : Activated Carbon Market, by Type
- 9.3.5.11.2 Spain: Activated Carbon Market, by Type
- 9.3.5.11.3 Spain: Activated Carbon Market, by Application
- 9.3.5.11.4 Spain: Activated Carbon Market, by Application
- 9.3.5.12 Belgium: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
- 9.3.5.13 Belgium: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.3.5.13.1 Belgium: Activated Carbon Market, by Type
  - 9.3.5.13.2 Belgium: Activated Carbon Market, by Type
  - 9.3.5.13.3 Belgium: Activated Carbon Market, by Application
  - 9.3.5.13.4 Belgium: Activated Carbon Market, by Application
- 9.3.5.14 Netherlands: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
- 9.3.5.15 Netherlands: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.3.5.15.1 Netherlands: Activated Carbon Market, by Type
  - 9.3.5.15.2 Netherlands: Activated Carbon Market, by Type
  - 9.3.5.15.3 Netherlands: Activated Carbon Market, by Application
  - 9.3.5.15.4 Netherlands: Activated Carbon Market, by Application
- 9.3.5.16 Rest of Western Europe: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
- 9.3.5.17 Rest of Western Europe: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.3.5.17.1 Rest of Western Europe: Activated Carbon Market, by Type
  - 9.3.5.17.2 Rest of Western Europe: Activated Carbon Market, by Type
  - 9.3.5.17.3 Rest of Western Europe: Activated Carbon Market, by Application
  - 9.3.5.17.4 Rest of Western Europe: Activated Carbon Market, by Application
- 9.4 Eastern Europe: Activated Carbon Market
  - 9.4.1 Eastern Europe: Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)
  - 9.4.2 Eastern Europe: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.4.3 Eastern Europe: Activated Carbon Market, by Type
  - 9.4.4 Eastern Europe: Activated Carbon Market, by Application
  - 9.4.5 Eastern Europe: Activated Carbon Market, by Key Country
    - 9.4.5.1 Historical Trends
    - 9.4.5.2 Russia: Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)
    - 9.4.5.3 Russia: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
      - 9.4.5.3.1 Russia: Activated Carbon Market, by Type

- 9.4.5.3.2 Russia: Activated Carbon Market, by Type
- 9.4.5.3.3 Russia: Activated Carbon Market, by Application
- 9.4.5.3.4 Russia: Activated Carbon Market, by Application
- 9.4.5.4 Poland: Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)
- 9.4.5.5 Poland: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.4.5.5.1 Poland: Activated Carbon Market, by Type
  - 9.4.5.5.2 Poland: Activated Carbon Market, by Type
  - 9.4.5.5.3 Poland: Activated Carbon Market, by Application
  - 9.4.5.5.4 Poland: Activated Carbon Market, by Application
- 9.4.5.6 Rest of Eastern Europe: Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)
- 9.4.5.7 Rest of Eastern Europe: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.4.5.7.1 Rest of Eastern Europe: Activated Carbon Market, by Type
  - 9.4.5.7.2 Rest of Eastern Europe: Activated Carbon Market, by Type
  - 9.4.5.7.3 Rest of Eastern Europe: Activated Carbon Market, by Application
  - 9.4.5.7.4 Rest of Eastern Europe: Activated Carbon Market, by Application
- 9.5 Asia Pacific: Activated Carbon Market
  - 9.5.1 Asia Pacific: Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)
  - 9.5.2 Asia Pacific: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.5.3 Asia Pacific: Activated Carbon Market, by Type
  - 9.5.4 Asia Pacific: Activated Carbon Market, by Application
  - 9.5.5 Asia Pacific: Activated Carbon Market, by Key Country
    - 9.5.5.1 Historical Trends
    - 9.5.5.2 Australia: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
    - 9.5.5.3 Australia: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
      - 9.5.5.3.1 Australia: Activated Carbon Market, by Type
      - 9.5.5.3.2 Australia: Activated Carbon Market, by Type
      - 9.5.5.3.3 Australia: Activated Carbon Market, by Application
      - 9.5.5.3.4 Australia: Activated Carbon Market, by Application
    - 9.5.5.4 China: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
    - 9.5.5.5 China: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
      - 9.5.5.5.1 China: Activated Carbon Market, by Type
      - 9.5.5.5.2 China: Activated Carbon Market, by Type
      - 9.5.5.5.3 China: Activated Carbon Market, by Application
      - 9.5.5.5.4 China: Activated Carbon Market, by Application
    - 9.5.5.6 India: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)

- 9.5.5.7 India: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.5.5.7.1 India: Activated Carbon Market, by Type
  - 9.5.5.7.2 India: Activated Carbon Market, by Type
  - 9.5.5.7.3 India: Activated Carbon Market, by Application
  - 9.5.5.7.4 India: Activated Carbon Market, by Application
- 9.5.5.8 Japan: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
- 9.5.5.9 Japan: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.5.5.9.1 Japan: Activated Carbon Market, by Type
  - 9.5.5.9.2 Japan: Activated Carbon Market, by Type
  - 9.5.5.9.3 Japan: Activated Carbon Market, by Application
  - 9.5.5.9.4 Japan: Activated Carbon Market, by Application
- 9.5.5.10 South Korea: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
- 9.5.5.11 South Korea: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.5.5.11.1 South Korea: Activated Carbon Market, by Type
  - 9.5.5.11.2 South Korea: Activated Carbon Market, by Type
  - 9.5.5.11.3 South Korea: Activated Carbon Market, by Application
  - 9.5.5.11.4 South Korea: Activated Carbon Market, by Application
- 9.5.5.12 Vietnam: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
- 9.5.5.13 Vietnam: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.5.5.13.1 Vietnam: Activated Carbon Market, by Type
  - 9.5.5.13.2 Vietnam: Activated Carbon Market, by Type
  - 9.5.5.13.3 Vietnam: Activated Carbon Market, by Application
  - 9.5.5.13.4 Vietnam: Activated Carbon Market, by Application
- 9.5.5.14 Pakistan: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
- 9.5.5.15 Pakistan: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.5.5.15.1 Pakistan: Activated Carbon Market, by Type
  - 9.5.5.15.2 Pakistan: Activated Carbon Market, by Type
  - 9.5.5.15.3 Pakistan: Activated Carbon Market, by Application
  - 9.5.5.15.4 Pakistan: Activated Carbon Market, by Application
- 9.5.5.16 Indonesia: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
- 9.5.5.17 Indonesia: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.5.5.17.1 Indonesia: Activated Carbon Market, by Type
  - 9.5.5.17.2 Indonesia: Activated Carbon Market, by Type

- 9.5.5.17.3 Indonesia: Activated Carbon Market, by Application
- 9.5.5.17.4 Indonesia: Activated Carbon Market, by Application
- 9.5.5.18 Taiwan: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
- 9.5.5.19 Taiwan: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.5.5.19.1 Taiwan: Activated Carbon Market, by Type
  - 9.5.5.19.2 Taiwan: Activated Carbon Market, by Type
  - 9.5.5.19.3 Taiwan: Activated Carbon Market, by Application
  - 9.5.5.19.4 Taiwan: Activated Carbon Market, by Application
- 9.5.5.20 Rest of Asia Pacific: Activated Carbon Market – Volume and Forecast to 2028 (Kilo Tons)
- 9.5.5.21 Rest of Asia Pacific: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.5.5.21.1 Rest of Asia Pacific: Activated Carbon Market, by Type
  - 9.5.5.21.2 Rest of Asia Pacific: Activated Carbon Market, by Type
  - 9.5.5.21.3 Rest of Asia Pacific: Activated Carbon Market, by Application
  - 9.5.5.21.4 Rest of Asia Pacific: Activated Carbon Market, by Application
- 9.6 Middle East & Africa: Activated Carbon Market
  - 9.6.1 Middle East & Africa: Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)
  - 9.6.2 Middle East & Africa: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.6.3 Middle East & Africa: Activated Carbon Market, by Type
  - 9.6.4 Middle East & Africa: Activated Carbon Market, by Application
  - 9.6.5 Middle East & Africa: Activated Carbon Market, by Key Country
    - 9.6.5.1 Historical Trends
    - 9.6.5.2 Turkey: Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)
    - 9.6.5.3 Turkey: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
      - 9.6.5.3.1 Turkey: Activated Carbon Market, by Type
      - 9.6.5.3.2 Turkey: Activated Carbon Market, by Type
      - 9.6.5.3.3 Turkey: Activated Carbon Market, by Application
      - 9.6.5.3.4 Turkey: Activated Carbon Market, by Application
    - 9.6.5.4 Saudi Arabia: Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)
    - 9.6.5.5 Saudi Arabia: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
      - 9.6.5.5.1 Saudi Arabia: Activated Carbon Market, by Type
      - 9.6.5.5.2 Saudi Arabia: Activated Carbon Market, by Type
      - 9.6.5.5.3 Saudi Arabia: Activated Carbon Market, by Application

- 9.6.5.5.4 Saudi Arabia: Activated Carbon Market, by Application
- 9.6.5.6 Rest of Middle East & Africa: Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)
- 9.6.5.7 Rest of Middle East & Africa: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.6.5.7.1 Rest of Middle East & Africa: Activated Carbon Market, by Type
  - 9.6.5.7.2 Rest of Middle East & Africa: Activated Carbon Market, by Type
  - 9.6.5.7.3 Rest of Middle East & Africa: Activated Carbon Market, by Application
  - 9.6.5.7.4 Rest of Middle East & Africa: Activated Carbon Market, by Application
- 9.7 South & Central America: Activated Carbon Market
  - 9.7.1 South & Central America: Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)
  - 9.7.2 South & Central America: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
  - 9.7.3 South & Central America: Activated Carbon Market, by Type
  - 9.7.4 South & Central America: Activated Carbon Market, by Application
  - 9.7.5 South & Central America: Activated Carbon Market, by Key Country
    - 9.7.5.1 Historical Trends
    - 9.7.5.2 Brazil: Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)
    - 9.7.5.3 Brazil: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
      - 9.7.5.3.1 Brazil: Activated Carbon Market, by Type
      - 9.7.5.3.2 Brazil: Activated Carbon Market, by Type
      - 9.7.5.3.3 Brazil: Activated Carbon Market, by Application
      - 9.7.5.3.4 Brazil: Activated Carbon Market, by Application
    - 9.7.5.4 Rest of South & Central America: Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)
    - 9.7.5.5 Rest of South & Central America: Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)
      - 9.7.5.5.1 Rest of South & Central America: Activated Carbon Market, by Type
      - 9.7.5.5.2 Rest of South & Central America: Activated Carbon Market, by Type
      - 9.7.5.5.3 Rest of South & Central America: Activated Carbon Market, by Application
      - 9.7.5.5.4 Rest of South & Central America: Activated Carbon Market, by Application

## **10. IMPACT OF COVID-19 PANDEMIC ON GLOBAL ACTIVATED CARBON MARKET**

- 10.1 Overview – Impact of COVID-19 Pandemic
- 10.2 Impact of COVID-19 on Activated Carbon Market
- 10.3 North America: Impact Assessment of COVID-19 Pandemic

10.4 Europe: Impact Assessment of COVID-19 Pandemic

10.5 Asia Pacific: Impact Assessment of COVID-19 Pandemic

10.6 Middle East and Africa: Impact Assessment of COVID-19 Pandemic

10.7 South America: Impact Assessment of COVID-19 Pandemic

## **11. INDUSTRY LANDSCAPE**

## **12. COMPANY PROFILES**

12.1 Osaka Gas Chemical Co. Ltd

12.1.1 Key Facts

12.1.2 Business Description

12.1.3 Products and Services

12.1.4 Financial Overview

12.1.5 Key Developments

12.2 KURARAY CO., 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 Key Developments

12.3 HAYCARB (PVT) LTD.

12.3.1 Key Facts

12.3.2 Business Description

12.3.3 Products and Services

12.3.4 Financial Overview

12.3.5 Key Developments

12.4 KUREHA CORPORATION

12.4.1 Key Facts

12.4.2 Business Description

12.4.3 Products and Services

12.4.4 Financial Overview

12.4.5 Key Developments

12.5 CABOT CORPORATION

12.5.1 Key Facts

12.5.2 Business Description

12.5.3 Products and Services

12.5.4 Financial Overview

12.5.5 Key Developments

## **13. APPENDIX**

13.1 About The Insight Partners

13.2 Glossary of Terms

## List Of Tables

### LIST OF TABLES

Table 1. Global Activated Carbon Market –Volume and Forecast to 2028 (Kilo Tons)

Table 2. Global Activated Carbon Market –Revenue and Forecast to 2028 (US\$ Million)

Table 3. Global Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 4. Global Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 5. Global Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 6. Global Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 7. North America Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 8. North America Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 9. North America Activated Carbon Market, by Application– Volume and Forecast to 2028 (Kilo Tons)

Table 10. North America Activated Carbon Market, by Application– Revenue and Forecast to 2028 (US\$ Million)

Table 11. North America Activated Carbon Market, by Country – Volume (Kilo Tons)

Table 12. North America Activated Carbon Market, by Country – Revenue (US\$ Million)

Table 13. US Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 14. US Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 15. US Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 16. US Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 17. Canada: Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 18. Canada: Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 19. Canada Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 20. Canada Activated Carbon Market, by Application – Revenue and Forecast to



2028 (US\$ Million)

Table 21. Mexico Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 22. Mexico Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 23. Mexico Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 24. Mexico Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 25. Western Europe Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 26. Western Europe Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 27. Western Europe Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 28. Western Europe Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 29. Western Europe Activated Carbon Market, by Country – Volume (Kilo Tons)

Table 30. Western Europe Activated Carbon Market, by Country – Revenue (USD Million)

Table 31. Germany Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 32. Germany Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 33. Germany Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 34. Germany Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 35. France Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 36. France Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 37. France Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 38. France Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 39. Italy Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 40. Italy Activated Carbon Market, by Type – Revenue and Forecast to 2028

(US\$ Million)

Table 41. Italy Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 42. Italy Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 43. United Kingdom Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 44. United Kingdom Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 45. United Kingdom Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 46. United Kingdom Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 47. Spain: Activated Carbon Market, by Type– Volume and Forecast to 2028 (Kilo Tons)

Table 48. Spain: Activated Carbon Market, by Type– Revenue and Forecast to 2028 (US\$ Million)

Table 49. Spain : Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 50. Spain: Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 51. Belgium Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 52. Belgium Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 53. Belgium Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 54. Belgium Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 55. Netherlands Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 56. Netherlands Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 57. Netherlands Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 58. Netherlands Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 59. Rest of Western Europe Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 60. Rest of Western Europe Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 61. Rest of Western Europe: Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 62. Rest of Western Europe: Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 63. Eastern Europe: Activated Carbon Market, by Type– Volume and Forecast to 2028 (Kilo Tons)

Table 64. Eastern Europe: Activated Carbon Market, by Type– Revenue and Forecast to 2028 (US\$ Million)

Table 65. Eastern Europe: Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 66. Eastern Europe: Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 67. Eastern Europe Activated Carbon Market, by Country – Volume (Kilo Tons)

Table 68. Eastern Europe Activated Carbon Market, by Country – Revenue (US\$ Million)

Table 69. Russia: Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 70. Russia: Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 71. Russia: Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 72. Russia: Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 73. Poland: Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 74. Poland: Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 75. Poland: Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 76. Poland: Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 77. Rest of Eastern Europe: Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 78. Rest of Eastern Europe: Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 79. Rest of Eastern Europe: Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 80. Rest of Eastern Europe: Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 81. Asia Pacific Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 82. Asia Pacific Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 83. Asia Pacific Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 84. Asia Pacific Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 85. Asia Pacific Activated Carbon Market, by Country – Volume (Kilo Tons)

Table 86. Asia Pacific Activated Carbon Market, by Country – Revenue (US\$ Million)

Table 87. Australia Activated Carbon Market, by Type– Volume and Forecast to 2028 (Kilo Tons)

Table 88. Australia Activated Carbon Market, by Type– Revenue and Forecast to 2028 (US\$ Million)

Table 89. Australia Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 90. Australia Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 91. China Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 92. China Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 93. China Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 94. China Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 95. India Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 96. India Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 97. India Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 98. India Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 99. Japan Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 100. Japan Activated Carbon Market, by Type – Revenue and Forecast to 2028

(US\$ Million)

Table 101. Japan Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 102. Japan Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 103. South Korea Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 104. South Korea Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 105. South Korea Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 106. South Korea Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 107. Vietnam: Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 108. Vietnam: Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 109. Vietnam: Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 110. Vietnam: Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 111. Pakistan: Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 112. Pakistan: Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 113. Pakistan: Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 114. Pakistan: Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 115. Indonesia: Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 116. Indonesia: Activated Carbon Market, by Type – Revenue and Forecast to 2028 (US\$ Million)

Table 117. Indonesia: Activated Carbon Market, by Application – Volume and Forecast to 2028 (Kilo Tons)

Table 118. Indonesia: Activated Carbon Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 119. Taiwan: Activated Carbon Market, by Type – Volume and Forecast to 2028 (Kilo Tons)

Table 120. Taiwan: Activated Carbon Market, by Type – Revenue an

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