

# Global Activated Carbon for Hydrogen Production Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/G6F6ADDBE31AEN.html>

Date: July 2023

Pages: 117

Price: US\$ 4,480.00 (Single User License)

ID: G6F6ADDBE31AEN

## Abstracts

The global Activated Carbon for Hydrogen Production market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Activated carbon for hydrogen production is a special catalyst or adsorbent used to promote the generation or adsorption of hydrogen. Activated carbon has a highly porous structure and large surface area, enabling it to adsorb gas molecules and facilitate chemical reactions. In the process of hydrogen production, activated carbon can be used in the following aspects: Steam reforming: Activated carbon can be used as a catalyst carrier for steam reforming reactions, where methane, methanol or other hydrogen-containing substances react with water vapor to produce hydrogen. The high surface area and porous structure of activated carbon can provide sufficient reaction surface and catalytic active sites to promote the reaction. Hydrogen storage: Activated carbon can be used as an adsorbent for hydrogen storage. Because activated carbon has a large number of micropores and mesopores, it has a high gas adsorption capacity. The adsorption of hydrogen on activated carbon can realize the storage and transportation of hydrogen for subsequent use. Hydrogen purification: Activated carbon can also be used in the hydrogen purification process to remove impurity gases. The surface of activated carbon has the ability to adsorb impurity gases, such as carbon dioxide, hydrogen sulfide, etc. By passing hydrogen into the activated carbon bed, impurity gases can be removed and the purity of hydrogen can be improved. Activated carbon for hydrogen production has a wide range of applications in the fields of hydrogen energy, chemical industry and environment. It provides a cost-effective method for the production, storage and purification of hydrogen.

This report studies the global Activated Carbon for Hydrogen Production production,

demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Activated Carbon for Hydrogen Production, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Activated Carbon for Hydrogen Production that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Activated Carbon for Hydrogen Production total production and demand, 2018-2029, (K Tons)

Global Activated Carbon for Hydrogen Production total production value, 2018-2029, (USD Million)

Global Activated Carbon for Hydrogen Production production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Tons)

Global Activated Carbon for Hydrogen Production consumption by region & country, CAGR, 2018-2029 & (K Tons)

U.S. VS China: Activated Carbon for Hydrogen Production domestic production, consumption, key domestic manufacturers and share

Global Activated Carbon for Hydrogen Production production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Tons)

Global Activated Carbon for Hydrogen Production production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Tons)

Global Activated Carbon for Hydrogen Production production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Tons)

This reports profiles key players in the global Activated Carbon for Hydrogen Production market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Calgon Carbon Corporation, Cabot Corporation, Kuraray Co., Ltd., Osaka Gas Chemicals Co., Ltd., Haycarb PLC,

Donau Carbon GmbH, Chemviron Carbon, CarboTech AC GmbH and Jacobi Carbons AB, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Activated Carbon for Hydrogen Production market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Activated Carbon for Hydrogen Production Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Activated Carbon for Hydrogen Production Market, Segmentation by Type

Coarse Granular Activated Carbon

Medium Granular Activated Carbon

Fine Granular Activated Carbon

## Global Activated Carbon for Hydrogen Production Market, Segmentation by Application

Hydrogen Energy Industry

Chemical Industry

Environmental Industry

Others

## Companies Profiled:

Calgon Carbon Corporation

Cabot Corporation

Kuraray Co., Ltd.

Osaka Gas Chemicals Co., Ltd.

Haycarb PLC

Donau Carbon GmbH

Chemviron Carbon

CarboTech AC GmbH

Jacobi Carbons AB

Carbon Activated Corporation

Silcarbon Aktivkohle GmbH

Kalpaka Chemicals Private Limited

ADA Carbon Solutions

TIGG LLC

Carbon Resources LLC

Continental Carbon India Limited

Carbo Solutions International

Oxbow Activated Carbon

#### Key Questions Answered

1. How big is the global Activated Carbon for Hydrogen Production market?
2. What is the demand of the global Activated Carbon for Hydrogen Production market?
3. What is the year over year growth of the global Activated Carbon for Hydrogen Production market?
4. What is the production and production value of the global Activated Carbon for Hydrogen Production market?
5. Who are the key producers in the global Activated Carbon for Hydrogen Production market?
6. What are the growth factors driving the market demand?

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