



Freedonia Focus Reports
US Collection

Activated Carbon: United States

December 2018



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About This Report

Scope

This report forecasts to 2022 US activated carbon demand and production in metric tons. Total demand is also forecasted in nominal US dollars at the manufacturer level. Total demand by volume is segmented by product in terms of:

- powdered
- granular
- other products such as fiber, cloth, and carbon monoliths

Total demand by volume is also segmented by market as follows:

- water treatment
- food and beverage processing
- other liquid phase markets such as pharmaceutical, medical, and mining
- industrial air purification
- motor vehicles
- other gas phase markets such as solvent recovery, consumer home air purifiers, and personal protection equipment

To illustrate historical trends, total demand by volume is provided in annual series from 2007 to 2017; total production by volume, total demand by value, and the various segments are reported at five-year intervals for 2007, 2012, and 2017.

This report examines the US market for virgin activated carbon (also called activated charcoal). The report also includes reactivated carbon sold by suppliers, but excludes carbon reactivated on-site or through a reactivation service agreement. The term “regeneration” is used interchangeably with the term “desorption” to mean the removal of contaminants from activated carbon, while “reactivation” is used when discussing the destruction of contaminants and the recovery of adsorption capacity.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Activated Carbon: United States (FF35050) is based on [Global Activated Carbon](#), a comprehensive industry study published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources, such as:

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- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental and non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

Table 6 | NAICS & SIC Codes Related to Activated Carbon

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing	2819	Industrial Inorganic Chemicals, NEC (activated carbon and charcoal)

Source: US Census Bureau

Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global

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data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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Resources

The Freedonia Group

Global Activated Carbon

Freedonia Industry Studies

Activated Carbon

Consumer Air Treatment Systems in the US

Consumer Water Treatment Systems in the US

Disposable Medical Supplies in the US

Food Safety Products in the US

Global Air & Fluid Filters Market

Global Food Processing Machinery

Global Hybrid & Electric Vehicles

Global Mining Equipment

Global Water Disinfection Equipment Market

Global Water Filtration Equipment Markets

Global Water Treatment Chemicals Market

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Motor Vehicles: United States

Pharmaceuticals: United States

Processed Food: United States

Water Treatment Chemicals: United States

Water: United States

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Trade Publications

Beverage Industry

Chemical & Engineering News

Chemical Week

Chemistry & Industry

Hydrocarbon Processing

ICIS Chemical Business

Specialty Chemicals

Agencies & Associations

American Water Works Association

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Portland Cement Association
Society of Chemical Industry
United States Census Bureau
United States Department of Energy
United States Environmental Protection Agency
United States International Trade Commission