CLICK TO VIEW

Activated Carbon

US Industry Study with Forecasts for **2014 & 2019**

Study #2713 | January 2011 | $5100 | 309 pages

The Freedonia Group
767 Beta Drive
Cleveland, OH • 44143-2326 • USA
Toll Free US Tel: 800.927.5900 or +1 440.684.9600
Fax: +1 440.646.0484
E-mail: info@freedoniagroup.com

www.freedoniagroup.com

Activated Carbon

US Industry Study with Forecasts for ***2014 & 2019***

Table of Contents

(continued on following page)

Activated Carbon

US Industry Study with Forecasts for ***2014 & 2019***

Table of Contents

COMPANY PROFILES

(continued from previous page)

List of Tables/Charts

EXECUTIVE SUMMARY

MARKET ENVIRONMENT

SUPPLY & DEMAND

PRODUCTS

LIQUID PHASE APPLICATIONS

GAS PHASE APPLICATIONS

REGIONS

INDUSTRY STRUCTURE

Study #2713
January 2011
$5100
309 Pages

Activated Carbon

US Industry Study with Forecasts for ***2014 & 2019***

Freedonia®

The main driver of rapid growth will be new demand in mercury and other hazardous air pollutant (HAP) control technology for industrial air purification applications.

US demand to grow 15.8% annually through 2014

US demand for activated carbon, including both virgin and reactivated products sold by activated carbon suppliers, is forecast to grow 15.8 percent per annum to 1.18 billion pounds in 2014. The main driver of this exceptional growth will be new demand in mercury control technology for industrial air purification applications. Over the next several years, a variety of US industrial facilities will be required to meet stringent new emissions standards covering mercury and other hazardous air pollutants (HAPs) administrated by the US Environmental Protection Agency (EPA).

PAC types to benefit from new air emissions controls

An activated carbon injection (ACI) system used for mercury control in a large industrial facility can consume up to two million pounds of activated carbon annually. As a result, the enactment of even a portion of the emissions standards currently in draft form will represent a tremendous growth opportunity for US suppliers. Through 2014, demand for activated carbon in mercury control applications alone is forecast to grow more than fivefold to 520 million pounds. As powdered activated carbon (PAC) is overwhelmingly the product type used in mercury control technology, the PAC segment will expand to account for two-thirds of US product demand in 2014 in volume terms.

US Activated Carbon Demand by Application, 2014
(1.18 billion pounds)

GAC types to be driven by water treatment and air purification applications

Granular activated carbon (GAC) types will see strong gains through 2014 as well, due primarily to expanded use of activated carbon filter systems in municipal drinking water treatment. Growth in this application will stem from new federal drinking water treatment standards being phased in through 2015, which target the elimination of microbial pathogens and disinfection byproducts (DBPs) from municipal systems. GAC will be the main product type chosen in this application. Due to the new water quality standards, demand for activated carbon in drinking water treatment (including both municipal and residential systems) is forecast to increase at double-digit annual rates through 2014.

In addition to the rapid gains underway in the industrial air purification market, demand for activated carbon in gas phase applications will improve in the motor vehicle segment. Through 2014, product demand for emissions canisters and other motor vehicle parts is expected to grow over 15 percent per annum as US motor vehicle production rebounds strongly. Activated carbon will see modest growth in liquid phase applications other than drinking water treatment, such as the preparation of pharmaceuticals.

Activated Carbon

US Industry Study with Forecasts for ***2014 & 2019***

Freedonia

Sample Text, Table & Chart

TABLE IV-1

**ACTIVATED CARBON DEMAND BY PRODUCT & APPLICATION
(million dollars)**

Item	1999	2004	2009	2014	2019
Gross Domestic Product (bil 2005$)					
lbs activated carbon/mil $ GDP					
Activated Carbon Demand (mil lbs)					
$/lb					
Activated Carbon Demand					
By Product:					
Granular					
Powdered					
Other					
By Application:					
Liquid Phase					
Gas Phase					

SAMPLE TABLE

REGIONS

Northeast

The Northeast region consists of two subregions: New
and the Middle Atlantic. Historically, the region's economy
in manufacturing. However, through the latter half of the 20
and into the early years of the new millennium, manufacturin
ity decreased in importance, as many producers relocated to
lower production costs. Industries that have sprung up in ma
ing's place include high technology and financial services. D
shifting focus on these newer industries, the region's econom
the slowest growing in the nation, increasing only 2.5 percen
real terms through 2014. Moreover, population growth in the
will remain well below the national average.

The Northeast is the smallest regional market for AC, with roughly 15 percent of total demand in 2009. The region's share of the national market is expected to decline through 2014 due to limited opportunities in major AC growth areas such as
ing water treatment. Nonetheless
Northeast is expected to increase
million pounds in 2014. Over thr
from the Middle Atlantic subregio

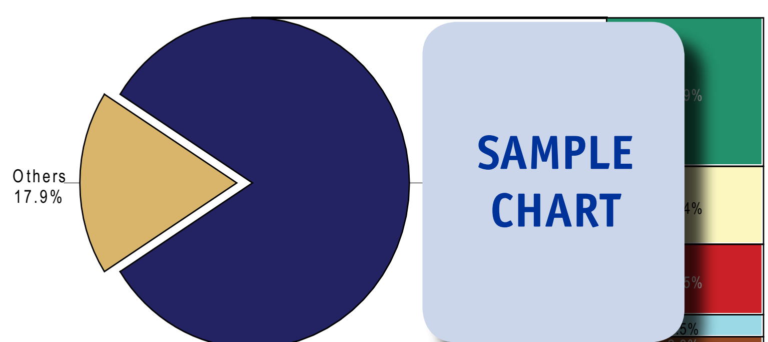
SAMPLE TEXT

The Northeast ranks second l
regions in its number of major coal-fired power plants (those producing over 100 MW of power annually) and has the lowest regional concen-
tration of clinker cement manufacturing facilities. This will
growth in AC consumption for mercury control technology,
forecast to expand rapidly in the electrical utility and cemen
industries through 2014. In addition, many municipalities in
particularly in New England, draw their drinking water supp
groundwater sources such as buried valley and artesian aqui
will limit growth in AC used for municipal water treatment,

214 Copyright 2010

CHART VIII-1

**US ACTIVATED CARBON MARKET SHARE BY COMPANY
($542 million, 2009)**



Click here to purchase online

Order now, click here!

Activated Carbon

US Industry Study with Forecasts for ***2014 & 2019***

Freedonia

Sample Profile, Table & Forecast

TABLE V-4

ACTIVATED CARBON DEMAND IN DRINKING WATER TREATMENT BY END USE & PRODUCT (million pounds)

Item	1999	2004	2009	2014	2019
Municipal Water Withdrawal (tril gal)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
lbs activated carbon/mil gallons water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Drinking Water Treatment AC Demand	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
By End Use:					
Municipal	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Residential	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
By Product:					
Granular	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Powdered	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
% drinking water	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Water Treatment Applications	[illegible]	[illegible]	[illegible]	[illegible]	435

SAMPLE TABLE

COMPANY PROFILES

Carbon Resources LLC
2535 Jason Court
Oceanside, CA 92056
760-630-5724
http://www.ca

Annual Sales:
Employment:

Key Products/ … and beaded activated carb… systems and related service

SAMPLE PROFILE

Carbon Resources is a leading producer of activated carbon products and a provider of related services. The Company is privately held.

The Company is involved in the US activated carbon industry via the supply of activated carbon based on such raw materials as coal, petroleum pitch, wood, rayon, bamboo and coconut shell; and activated carbon-based adsorption systems. These products can be used for a wide range of applications, including water and wastewater treatment; air and gas treatment; food and beverage decolorization, deodorization and purification; precious metal recovery; chemical purification; industrial oil purification; solvent recovery; cigarette filters; and pharmaceutical processes.

Activated carbon from Carbon Resources is marketed under the SPARTAN SERIES and SABRE SERIES brand names. SPARTAN SERIES coconut shell-based activated carbons from the Company are non-chemically impregnated and surface-modified for increased capabilities for breaking down hydrogen sulfide, chloramines and other noxious compounds. Carbon Resources' SABRE SERIES line of activated

287

"Demand for activated carbon used in drinking water treatment applications is forecast to increase 13.1 percent per annum to 248 million pounds in 2014, with the majority of this demand coming from the municipal drinking water segment. Growth in municipal drinking water applications for activated carbon will far exceed increases in municipal water withdrawal due to the adoption of the EPA's more stringent standards for treating public drinking water supplies for disinfection byproducts."
--Section V, pg. 126-7

Order Information

Five Convenient Ways to Order

INDUSTRY MARKET RESEARCH FOR BUSINESS LEADERS, STRATEGISTS, DECISION MAKERS

Freedonia®

ONLINE: www.freedoniagroup.com

MAIL: Print out and complete the order form and send to The Freedonia Group (see address at the bottom of this form)

PHONE: Call toll free, 800.927.5900 (US) or +1 440.684.9600

FAX: +1 440.646.0484 (US)

EMAIL: info@freedoniagroup.com

Free Handling & Shipping

There is NO charge for handling or UPS shipping in the US. Expect delivery in 3 to 5 business days. Outside the US, Freedonia provides free airmail service. Express delivery is available at cost.

Orders Outside of the US

Checks must be made payable in US funds, drawn against a US bank and mailed directly to The Freedonia Group. For wire transfers please contact our customer service department at info@freedoniagroup.com. Credit cards accepted.

Credit Card Orders

For convenience, Freedonia accepts American Express, MasterCard or Visa. Credit card purchases must include account number, expiration date and authorized signature.

Save 15%

If you order three (3) different titles at the same time, you can receive a 15% discount. If your order is accompanied by a check or wire transfer, you may take a 5% cash discount (discounts do not apply to Corporate Use Licenses).

Corporate Use License

Now every decision maker in your organization can act on the key intelligence found in all Freedonia studies. For an additional $2600, companies receive unlimited use of an electronic version (PDF) of the study. Place it on your intranet, e-mail it to coworkers around the world, or print it as many times as you like,

Click here to learn more about the Corporate Use License

Order Form

F-WEB.-2713

Activated Carbon $5100

☐ Corporate Use License (add to study price) * +$2600

___ Additional Print Copies @ $600 each *

Total (including selected option) $________

☐ Enclosed is my check (5% discount) drawn on a US bank and payable to The Freedonia Group, Inc., in US funds (Ohio residents add 7.75% sales tax)

☐ Bill my company ☐ American Express ☐ MasterCard ☐ Visa

Credit Card # ________________

Expiration MM YY

Signature ________________

Name ________________

Title ________________

Company ________________

Division ________________

Street ________________ (No PO Box please)

City/State/Zip ________________

Country ________________

Phone ________________ Fax ________________

Email ________________

* Please check appropriate option and sign below to order an electronic version of the study.

☐ Corporate Use License Agreement

The above captioned study may be stored on the company's intranet or shared directory, available to company employees. Copies of the study may be made, but the undersigned represents that distribution of the study will be limited to employees of the company.

Signature ________________

☐ Individual Use License Agreement

The undersigned hereby represents that the above captioned study will be used by only ___ individual(s) who are employees of the company and that the study will not be loaded on a network for multiple users. In the event that usage of the study changes, the Company will promptly notify Freedonia of such change and will pay to Freedonia the appropriate fee based on Freedonia's standard fee schedule then in effect. Note: Entire company corporate use license, add $2600; one additional user, add $600; two additional users, add $1200; three additional users, add $1800.

Signature ________________

The Freedonia Group, Inc. 767 Beta Drive • Cleveland, OH • 44143-2326 • USA • Web site: www.freedoniagroup.com
Tel US: 800.927.5900 or +1 440.684.9600 • Fax: +1 440.646.0484 • e-mail: info@freedoniagroup.com

Other Studies

World Fertilizers

This study analyzes the world fertilizer industry. It presents historical demand data for the years 1999, 2004 and 2009, and forecasts for 2014 and 2019 by fertilizer type (e.g., nitrogen, phosphate, potassium), end use market (agriculture, consumer, commercial), world regional market and for over 30 major national markets. The study also considers market environment factors, details industry structure, evaluates company market share and profiles industry participants.

#2726 .... March 2011 .... $5900

Consumer Water Purification & Air Cleaning Systems

This study analyzes the US consumer water purification and air cleaning system industry. It presents historical demand data (1999, 2004, 2009) and forecasts for 2014 and 2019 by technology (e.g., conventional filtration, reverse osmosis, distillation, ultraviolet, ozone, electrostatic, ionization), water purifier type (point-of-entry, point-of-use), air cleaner type (whole-house, portable) and US region. The study also considers market environment factors, evaluates company market share and profiles industry players.

#2701 .... February 2011 .... $5100

World Activated Carbon

World demand for virgin activated carbon will rise 9.9% yearly through 2014. The US is the largest national market and will also pace global growth based on anticipated new federal regulations mandating mercury removal at coal-fired power plants. This study analyzes the 1.1 million metric ton global activated carbon industry, with forecasts for 2014 and 2019 by type, application, market, world region and for 17 countries. It also evaluates company market share and profiles industry participants.

#2626 .... June 2010 .... $5900

World Carbon Black

World demand for carbon black is forecast to rise 4.3% annually through 2013. Growth in the non-tire rubber product market will outpace growth in the dominant motor vehicle tire sector, while the smaller special blacks market will rise the fastest. The Asia/Pacific region will post the strongest gains. This study analyzes the 9.4 million metric ton world carbon black industry, with forecasts for 2013 and 2018 by market, world region and for 25 countries. It also evaluates company market share and profiles industry players.

#2596 .... February 2010 .... $5700

World Filters

Global demand for filters is forecast to expand 5.1% annually through 2013. Market advances in the developing areas will considerably outpace increases in the US, Western Europe and Japan. Sales of air purification filters will be the fastest growing segment while internal combustion engine and related filters remain the largest. This study analyzes the $45.5 billion world filter industry, with forecasts for 2013 and 2018 by product, market, world region and for 26 countries. It also evaluates market share and profiles industry players.

#2568 .... November 2009 .... $6100

About The Freedonia Group

The Freedonia Group, Inc., is a leading international industry market research company that provides its clients with information and analysis needed to make informed strategic decisions for their businesses. Studies help clients identify business opportunities, develop strategies, make investment decisions and evaluate opportunities and threats. Freedonia research is designed to deliver unbiased views and reliable outlooks to assist clients in making the right decisions. Freedonia capitalizes on the resources of its proprietary in-house research team of experienced economists, professional analysts, industry researchers and editorial groups. Freedonia covers a diverse group of industries throughout the United States, the emerging China market, and other world markets. Industries analyzed by Freedonia include:

• Chemicals • Plastics • Life Sciences • Packaging • Building Materials • Security & Electronics • Industrial Components & Equipment • Automotive & Transportation Equipment • Household Goods • Energy/Power Equipment

Click here to learn more about Freedonia

Freedonia Custom Research

Freedonia Custom Research delivers the same high quality, thorough and unbiased assessment of an industry or market as an industry study. Since the research initiative is based upon a company's specific needs, companies harness Freedonia's research capabilities and resources to answer unique questions. When you leverage the results of a Freedonia Custom Research engagement, you are able to obtain important answers to specific questions and issues associated with: mergers and acquisitions, new product launches/development, geographic expansion, entry into new markets, strategic business planning, and investment and funding decisions.

Freedonia Custom Research is ideal for companies seeking to make a strategic difference in the status quo and focus on future business growth. Working side by side with clients, Freedonia's team is able to define a research project that is custom-tailored to answer specific questions and provide the basis from which a company can make informed business decisions.

Click here to learn more about Custom Research

Click here for complete title list

Click here to visit freedoniagroup.com

The Freedonia Group, Inc. 767 Beta Drive • Cleveland, OH • 44143-2326 • USA • Web site: www.freedoniagroup.com
Tel US: 800.927.5900 or +1 440.684.9600 • Fax: +1 440.646.0484 • e-mail: info@freedoniagroup.com