STUDY GOAL AND OBJECTIVES

This report provides the industry executives with strategically significant competitor information, analysis, insight and projection on the competitive pattern and key companies in the industry, crucial to the development and implementation of effective business, marketing and R&D programs.

REPORT OBJECTIVES

◆ To establish a comprehensive, factual, annually updated and cost-effective information base on market size, competition patterns, market segments, goals and strategies of the leading players in the market, reviews and forecasts.
◆ To assist potential market entrants in evaluating prospective acquisition and joint venture candidates.
◆ To complement the organizations’ internal competitor information gathering efforts with strategic analysis, data interpretation and insight.
◆ To suggest for concerned investors in line with the current development of this industry as well as the development tendency.
◆ To help company to succeed in a competitive market, and

METHODOLOGY

Both primary and secondary research methodologies were used in preparing this study. Initially, a comprehensive and exhaustive search of the literature on this industry was conducted. These sources included related books and journals, trade literature, marketing literature, other product/promotional literature, annual reports, security analyst reports, and other publications.

Subsequently, telephone interviews or email correspondence was conducted with marketing executives etc. Other sources included related magazines, academics, and consulting companies.

INFORMATION SOURCES

The primary information sources include Company Reports, and National Bureau of Statistics of China etc.
Abstract

Activated carbon, a functional carbon material with properties of physical and chemical adsorption, can be divided into coal-based activated carbon, wood-based activated carbon, and other activated carbons.

In 2015, global activated carbon capacity approximated 2.1 million tons (mainly distributed in China, the United States, Japan, and Europe), compared with total demand of only about 1.547 million tons, indicating a huge excess capacity across the entire industry and further capacity integration or elimination in the future.

As the world’s largest producer of activated carbon, China’s capacity and output of activated carbon reached roughly 900,000 tons and about 628,000 tons (up 6.6% year on year) respectively in 2015, with autilization of 69.8%. Driven by environmental protection and automobile industries, China’s activated carbon industry will continue to grow steadily in the future at an output CAGR of around 7.4% during 2016-2020.

Besides satisfying domestic demand, about 1/3 of China-made activated carbon is exported. The country exported 251,000 tons of activated carbon, including 58,000 tons of wood-based activated carbon, mainly to Japan, Peru, and Indonesia, and 193,000 tons of other activated carbons, primarily to Japan, South Korea, and Belgium.

Water treatment and food & beverage are two application fields of activated carbon in China, together making up 60.2% of total demand in 2015, with the former mainly adopting granular activated carbon and the latter powdered activated carbon.

Major global activated carbon manufacturers include U.S. Calgon, Cabot, and Meadwestvaco, Japanese Kuraray and Osaka Gas, French CECA, and Chinese Fujian Yuanli Active Carbon, Datong Coal Mining Jinding Activated Carbon, and Shanxi Xinhua Chemical. Calgon is the world’s largest activated carbon producer with a 21.2% global market share, Fujian Yuanli Active Carbon is the largest wood-based activated carbon maker in China, seizing about 21.7% of the Chinese wood-based activated carbon market, and Datong Coal Mining Jinding Activated Carbon is the country’s largest coal-based activated carbon manufacturer, occupying 16.7% or so of the segment in China.
Global and China Activated Carbon Industry Report, 2016-2020 by ResearchInChina highlights the followings:

- Global activated carbon industry (overview, market size/structure, demand in major countries, etc.);
- China’s activated carbon industry (overview, development environment, output/sales, patent, price, market structure, imports/exports, competitive landscape, development trends, etc.);
- Main upstream sectors (wood cutting/processing, chemical activator, coal) (market size/price/structure, etc.);
- Main applications (water treatment, food & beverage, automobile, pharmaceuticals, etc.) (development, product application, etc.);
- 6 global and 19 Chinese activated carbon producers (operation, presence in China, activated carbon business, etc.).
1 Overview of Activated Carbon Industry
1.1 Definition
1.2 Classification
1.3 Application and Sales Model

2 Global Activated Carbon Industry
2.1 Overview
2.2 Market Size
2.3 Market Structure
2.4 Major Countries/Regions
2.4.1 USA
2.4.2 Japan
2.4.3 Russia
2.4.4 Western Europe
2.4.5 Asia

3 Activated Carbon Industry in China
3.1 Overview
3.2 Development Environment
3.2.1 Regulatory System
3.2.2 Industry Policy
3.2.3 Trade Policy
3.3 Market Size
3.3.1 Output/Sales
3.3.2 Patent
3.3.3 Price

4 Main Upstream Sectors of Activated Carbon
4.1 Wood Cutting & Processing Industry
4.1.1 Output Value
4.1.2 Output
4.2 Chemical Activators (Phosphoric Acid, Zinc Chloride, etc.)
4.3 Coal Industry
4.3.1 Output
4.3.2 Output

5 Main Applications of Activated Carbon
5.1 Water Treatment Sector
5.1.1 Application of Activated Carbon in Water Treatment Sector
5.1.2 Status Quo of Water Treatment Sector
5.2 Food & Beverage Sector
5.2.1 Application of Activated Carbon in Food & Beverage Sector
5.2.2 Status Quo of Food & Beverage Sector
5.3 Pharmaceuticals Sector
5.3.1 Application of Activated Carbon in Pharmaceuticals Industry
5.3.2 Status Quo of Pharmaceuticals Sector
5.4 Automobile Sector
5.4.1 Application of Activated Carbon in Automobile Sector
5.4.2 Status Quo of Automobile Sector
5.5 Chemical and Metallurgy Sectors

6. Leading Activated Carbon Companies Worldwide
6.1 Profile
6.1.1 Profile
6.1.2 Operation
6.1.3 Revenue Structure
6.1.4 Gross Margin
6.1.5 R&D and Investment 7.1.1 Profile 7.7.1 Jiangsu Zhuxi Activated Carbon
6.1.6 Development in China 7.1.2 Operation 7.7.2 Hangzhou Hengxing Activated Carbon
6.1.7 Activated Carbon Business 7.1.3 Revenue Structure 7.7.3 ChifengZhonglinZhongtian Chemical Industry
6.2 Cabot 7.1.4 Gross Margin 7.7.4 Golden Lake Carbon
6.2.1 Profile 7.1.5 R&D and Investment 7.7.5 Datong Locomotive Coal
6.2.2 Operation 7.1.6 Customers and Suppliers
6.2.3 Revenue Structure 7.1.7 Production and Sales
6.2.4 Gross Margin 7.1.8 Activated Carbon Business
6.2.5 Activated Carbon Business 7.2 Fujian Xinsen Carbon
6.3 Meadwestvaco 7.2.1 Profile
6.3.1 Profile 7.2.2 Activated Carbon Business
6.3.2 Operation 7.2.3 Development
6.3.3 Revenue Structure 7.3 Fujian Zhixing Activated Carbon
6.3.4 Gross Margin 7.3.1 Profile
6.3.5 Activated Carbon Business 7.3.2 Operation
6.4 Kuraray 7.3.3 R&D
6.4.1 Profile 7.3.4 Activated Carbon Business
6.4.2 Development in China 7.4 GuizhouYunhe Carbon
6.5 Osaka Gas Chemicals Group 7.4.1 Profile 8.4 Inner Mongolia Taixi Coal
6.5.1 Profile 7.4.2 Operation 8.5. Shanxi Huaqing Activated Carbon
6.5.2 Osaka Gas Chemicals (OGC) 7.5 Shanghai Xingchang Activated Carbon 8.6 Others
6.5.3 Japan EnviroChemicals (JEC) 7.5.1 Profile 8.6.1 Datong Municipal Yunguang Activated Carbon
6.6 CECA 7.5.2 Activated Carbon Business 8.6.2 Ningxia Guanghua-Cherishmet Activated Carbon
8. Major Coal-based Activated Carbon Enterprises in China 8.6.3 HuairenHuanyu Purification Materials
8.1 Datong Coal Jinding Activated Carbon 9 Summary and Forecast
8.1.1 Profile
8.1.2 Activated Carbon Business
8.2 Shanxi Xinhua Chemical 9.1 Industry
8.2.1 Profile
8.2.2 Shanxi Xinhua Activated Carbon
8.3 Ningxia Huahui Activated Carbon 9.2 Enterprise
8.3.1 Profile
8.3.2 Operation
8.4 Inner Mongolia Taixi Coal
8.5. Shanxi Huaqing Activated Carbon
8.6 Others
8.6.1 Datong Municipal Yunguang Activated Carbon
8.6.2 Ningxia Guanghua-Cherishmet Activated Carbon
8.6.3 HuairenHuanyu Purification Materials
9.1 Industry
9.2 Enterprise
• Classification and Brief Introduction of Activated Carbon
• Difference between Wood-based Activated Carbon and Coal-based Activated Carbon
• Application and Sales Model of Activated Carbon
• History of Global Activated Carbon Development
• Global Demand for Activated Carbon and YoY Growth, 2008-2020E
• Global Activated Carbon Market Size, 2012-2020E
• Structure of Key Activated Carbon Supply Regions Worldwide (by Capacity), 2015
• Global Activated Carbon Demand Structure by Terminal Application, 2015
• Global Activated Carbon Application Structure, 2015
• Global Activated Carbon Demand Structure (by Product), 2015
• Demand for Activated Carbon in USA, 2014-2020E
• Activated Carbon Demand Structure in USA by Application, 2015
• Demand for Activated Carbon in Japan, 2005-2020E
• Activated Carbon Demand Structure in Japan by Application, 2015
• Output of Activated Carbon in Russia, 2012-2020E
• Activated Carbon Demand Structure in Western Europe by Application, 2015
• Distribution of Main Activated Carbon Production Areas in China
• Name List of Chinese Activated Carbon Enterprises Exposed to Anti-Dumping Administrative Review Final Launched by USA and Anti-Dumping Duty, 2015
• Activated Carbon Output and Growth Rate in China, 2008-2020E
• Demand for Activated Carbon and Growth Rate in China, 2010-2020E
• Price Trend of Main Activated Carbons in China, 2015-2016
• Output Structure of Activated Carbon in China, 2015/2020
• Application Structure of Activated Carbon in China, 2015/2020
• Import Volume and Import Value of Wood-based Activated Carbon in China, 2010-2016
• Top 10 Countries/Regions by Imports of Wood-based Activated Carbon in China, 2015
• Import Volume and Import Value of Other Activated Carbons in China, 2010-2016
• Top 10 Countries/Regions by Imports of Other Activated Carbons in China, 2015
• Export Volume and Export Value of Wood-based Activated Carbon in China, 2010-2016
• Top 10 Countries/Regions by Exports of Wood-based Activated Carbon in China, 2015
• Export Volume and Export Value of Other Activated Carbons in China, 2010-2016
• Top 10 Countries/Regions by Exports of Other Activated Carbons in China, 2015
• Capacity Structure of Wood-based Activated Carbon in China (by Region), 2015
• Capacity Structure of Wood-based Activated Carbon in China (by Enterprise), 2015
• Capacity Structure of Coal-based Activated Carbon in China (by Enterprise), 2015
• Total Output Value of Forestry and YoY Growth Rate in China, 2008-2020E
• Provinces with Total Output Value of Forestry Exceeding RMB300 Billion in China, 2014
• Timber Output and YoY Growth Rate in China, 2008-2020E
• Log Output and YoY Growth Rate in China, 2008-2020E
• Import Volume and Import Value of Log in China, 2008-2016
• Price Trend of Phosphoric Acid (85% Industrial Grade) in China, 2010-2015
• Anthracite Output and YoY Growth Rate in China, 2009-2016
• Output Structure of Anthracite in China (by Region), 2015
• Average Price Trend of Anthracite in China, 2016
• Import Structure of Anthracite in China (by Country), 2015
• Activated Carbon Consumption in Water Treatment Industry in China, 2014-2020E
• Water Consumption Per Capita and YoY Growth Rate in China, 2008-2016
- Bottled/Canned Drinking Water Output and YoY Growth Rate in China, 2008-2016
- Discharge Volume of Sanitary Sewage and Industrial Wastewater, 2008-2016
- Activated Carbon Consumption in Food and Drinks Industry in China, 2014-2020E
- Fermentation Industry Demand for Activated Carbon in China (by Product), 2010-2020
- Starch Sugar Output and YoY Growth Rate in China, 2008-2016
- Sugar Output and YoY Growth Rate in China, 2008-2016
- Carbonated Beverage Output and YoY Growth Rate in China, 2008-2016
- Activated Carbon Application in Pharmaceuticals
- Activated Carbon Consumption in Pharmaceuticals Industry in China, 2014-2020E
- Output Value and YoY Growth Rate of Pharmaceuticals Industry in China, 2014-2020E
- Activated Carbon Consumption in Automotive Industry in China, 2014-2020E
- Sales Volume of Passenger Vehicle Worldwide, 2005-2016
- Sales Volume of Commercial Vehicle Worldwide, 2005-2016
- Automobile Sales Volume of Major Countries in the World, 2015
- Changes in China’s Automobile Sales Volume, 2011-2016
- Early Warning Index of Auto Dealer Inventory in China, 2014-2016
- Sales Volume Structure of Passenger Vehicles in China (by Country), 2015
- Competition Pattern of Automotive Market in China, 2015
- Calgon’s Revenue and Net Income, 2010-2015
- Calgon’s Revenue (by Division), 2010-2015
- Calgon’s Revenue Structure (by Division), 2010-2015
- Calgon’s Revenue (by Region), 2010-2015
- Calgon’s Revenue (by Product), 2010-2015
• Calgon's R & D Costs and % of Total Revenue, 2010-2015
• Calgon's Capital Expenditure and YoY Growth Rate, 2010-2015
• Calgon's Revenue in China, YoY Growth Rate and % of Total Revenue, 2010-2015
• Main Products of Calgon
• Revenue and Net Income of Cabot, FY2010- Q1FY2016
• Revenue of Cabot (by Segment), FY2015-Q1FY2016
• Revenue Structure of Cabot (by Segment), FY2015-Q1FY2016
• Revenue of Cabot (by Region), FY2011-FY2015
• Revenue Structure of Cabot (by Region), FY2011-FY2015
• Gross Margin of Cabot, FY2011-Q1FY2016
• Activated Carbon Revenue, YoY Growth Rate and % of Total Revenue of Cabot, FY2011- Q1FY2016
• Main Products of Cabot
• MWV's Revenue and Net Income, 2010-2015
• MWV Revenue (by Division), 2012-2014
• MWV's Revenue Structure (by Division), 2012-2014
• MWV's Revenue (by Region), 2010-2014
• MWV's Revenue Structure (by Region), 2010-2014
• MWV's Gross Margin, 2010-2014
• Kuraray’s Subsidiaries
• Layout and Information of Activated Carbon Production Plants of Japan EnviroChemicals
• Equity Structure of Fujian Yuanli Active Carbon
• Subsidiaries of Fujian Yuanli Active Carbon
• Revenue and Net Income of Fujian Yuanli Active Carbon, 2010-2015
• Revenue Breakdown and Structure of Fujian Yuanli Active Carbon (by Product), 2014-2015
• Revenue of Fujian Yuanli Active Carbon (by Region), 2010-2015
Selected Charts

- Revenue Structure of Fujian Yuanli Active Carbon (by Region), 2010-2015
- Gross Margin of Fujian Yuanli Active Carbon, 2010-2015
- Gross Margin of Fujian Yuanli Active Carbon (by Region), 2010-2015
- R & D Costs and % of Total Revenue of Fujian Yuanli Active Carbon, 2010-2015
- Progress of Research Projects of Fujian Yuanli Active Carbon, 2015
- Revenue of Fujian Yuanli Active Carbon from Top 5 Clients and % of Total Revenue, 2010-2015
- Procurement of Fujian Yuanli Active Carbon from Top 5 Suppliers and % of Total Procurement, 2010-2015
- Activated Carbon Output, Sales Volume and Inventory of Fujian Yuanli Active Carbon, 2011-2015
- Output and Sales of Wood-based Activated Carbon of Fujian Yuanli Active Carbon, 1999-2015
- Main Products of Fujian Yuanli Active Carbon
- Activated Carbon Applications of Fujian Xinsen Carbon
- Capacity of Fujian Xinsen Carbon (by Product), 2015
- Equity Structure of Zhixing Activated Carbon
- Revenue and Total Profit of Zhixing Activated Carbon, 2013-2015
- Total Assets and Total Liabilities of Zhixing Activated Carbon, 2013-2015
- Revenue Breakdown and Structure of Zhixing Activated Carbon (by Region), 2014-2015
- Activated Carbon Revenue Structure of Zhixing Activated Carbon (by Applications), 2013-2015
- 50,000 t/a Activated Carbon Deep (Fine) Processing Project Planning of Zhuxi Activated Carbon
- Revenue and Total Profit of Yunhe Carbon, 2007-2015
- Main Products and Application of Qianmin Activated Carbon
- Main Production Lines and Capacity of Xinhua Activated Carbon
- Total Assets, Total Revenue, Total Profit, Net Income and Total Liabilities of Xinhua Activated Carbon, 2013-2015
• Revenue of Taixi Coal, 2010-2016E
• Activated Carbon Output, Sales Volume and Sales-Output Ratio of Taixi Coal, 2010-2015
• Total Assets, Total Revenue, Net Income of Huaqing Activated Carbon, 2013-2015
• Revenue Breakdown and Structure of Huaqing Activated Carbon (by Region), 2013-2015
• Major Customers of Huaqing Activated Carbon, 2013-2015
• Major Suppliers of Huaqing Activated Carbon, 2013-2015
• Main Products and Applications of Huaqing Activated Carbon
• Demand Growth of Global and Chinese Activated Carbon Markets, 2010-2020E
• Total Import and Export Volume of Activated Carbon in China, 2010-2015
• Applications of Activated Carbon in China, 2014-2020
• Competition Pattern of Global Activated Carbon Market, 2015
• Competition Pattern of Chinese Activated Carbon Market, 2015
You can place your order in the following alternative ways:

1. Order online at www.researchinchina.com
2. Fax order sheet to us at fax number: +86 10 82601570
3. Email your order to: report@researchinchina.com
4. Phone us at +86 10 82600828/82601561

Choose type of format

- PDF (Single user license) .......... 2,300 USD
- Hard copy .......................... 2,500 USD
- PDF (Enterprisewide license) ...... 3,500 USD

Reports will be dispatched immediately once full payment has been received.
Payment may be made by wire transfer or credit card via PayPal.

<table>
<thead>
<tr>
<th>Title</th>
<th>Format</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total:
About ResearchInChina

ResearchInChina (www.researchinchina.com) is a leading independent provider of China business intelligence. Our research is designed to meet the diverse planning and information needs of businesses, institutions, and professional investors worldwide. Our services are used in a variety of ways, including strategic planning, product and sales forecasting, risk and sensitivity management, and as investment research.

Our Major Activities

- Multi-users market reports
- Database-RICDB
- Custom Research
- Company Search

For any problems, please contact our service team at:

Room 502, Block 3, Tower C, Changyuan Tiandi Building, No. 18, Suzhou Street, Haidian District, Beijing, China 100080
Phone: +86 10 82600828 ● Fax: +86 10 82601570 ● www.researchinchina.com ● report@researchinchina.com