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
Coal tar, one of by-products in raw coal gas generated from coal pyrolysis in coking industry, accounts for 3%-4% of the output of coal as fired and is a main raw material in coal chemical industry.

China produced 22.13 million tons of coal tar in 2016, edging up 0.1% from a year earlier, largely due to rising prices of raw materials and environmental protection campaigns. As the government intensifies crackdown on illegal polluters, coal tar output will further slip to 21.90 million tons in 2017. With phase-out of outdated capacity, the coal tar industry will gradually pick up over the next couple of years, thus stimulating coal tar output to grow again. The country’s coal tar output is expected to rise at a CAGR of around 1.5% during 2017-2021.

High-temperature coal tar holds a dominant position in the Chinese market. In 2016, 16.20 million tons of high-temperature coal tar and 3.99 million tons of medium-temperature coal tar were produced, making up 73.1% and only 18.1% of total coal tar output, respectively. As high-temperature coal tar is primarily used in high value-added chemicals while medium-temperature coal tar in fuel oil field, it is expected the former will grow faster than the latter.

Around 70% of China-made coal tar is used in further processing fields. Moreover, China is a major further processor of coal tar in the world, boasting one-fourth of global coal tar deep-processing capacity in 2016. China was capable of intensively processing 24.80 million tons of coal tar in 2016, down 2.7% from 2015 mainly due to de-capacity after years of rapid expansion which caused massive over-capacity and then dramatic decline in utilization. Hence, the demand for coal tar from deep-processing fields has slowed in recent two years.

Global major coal tar deep-processing enterprises include Koppers (United States), Ruetgers (Germany), Nippon Steel & Sumikin Chemical (Japan) and Baoshun Technology (China). Koppers is the world’s largest coal tar deep-processing firm with capacity of 2.10 million t/a, while Baoshun Technology is the biggest coal tar deep-processing company in China with the capacity of 1.05 million t/a. The Chinese coal tar deep-processing market features low concentration, with top10 players occupying a combined 26.2% market share in 2016.

After five years of decline amid fluctuations, coal tar price rallied in 2016 from RMB1,400/t or so at the beginning of the year to around RMB2,200/t at the end of the year at a growth rate of over 50%, and remained between RMB2,500/t and RMB3,000/t during Jan-Sept 2017. Price pick-up is mainly fueled by decreased excess capacity and a recovery in downstream market. Thanks to an upturn in coal tar pitch, industrial naphthalene and phthalic anhydride sectors, high-temperature coal tar found a higher utilization rate and steadily rising prices which, on average, were higher than that of medium and low-temperate coal tar.
China Coal Tar Industry Report, 2017-2021 highlights the following:
Coal tar (overview, classification, application, main manufacturing techniques, etc.);
Chinese coal tar (high-temperature coal tar, medium-temperature coal tar) market (policy environment, supply & demand, import & export, prices, development trends, etc.);
Upstream sectors (coal, coke) of coal car in China (market size/structure, import & export, market prices, etc.);
Downstream deep-processing sectors (phenol, industrial naphthalene, coal tar pitch) of coal tar in China (market size, import & export, market prices, etc.);
Coal tar industry in China (regional/enterprise/product competitive landscape);
Three foreign and twelve Chinese coal tar producers (operation, coal tar business, etc.)

China’s Coal Tar Output and Growth. 2013-2021

Source: China Coal Tar Industry Report, 2017-2021 by ResearchInChina
## Overview of Coal Tar

### 1. Definition & Classification

1.2 Preparation

### 2. Application

1.4 Key Technologies

#### 1.4.1 Coal Tar Distillation

1.4.2 Industrial Naphthalene Distillation

#### 1.4.3 Elution of Fraction from Coal Tar Distillation

1.4.4 Refining of Crude Anthracene

#### 1.4.5 Decomposition of Hydroxybenzene Natrium Salt

### 3. Development Environment for China Coal Tar Industry

#### 2.1 Policy Environment

#### 2.2 Supply

##### 2.2.1 High-temperature Coal Tar

##### 2.2.2 Medium-temperature Coal Tar

##### 2.2.3 Low-temperature Coal Tar

#### 2.3 Demand

##### 2.3.1 Demand from Deep Processing

##### 2.3.2 Demand from Carbon Black

##### 2.3.3 Demand from Fuel

#### 2.4 Import and Export

### 4. Downstream Deep-processing Sectors of Coal Tar in China

#### 4.1 Phenol Oil

##### 4.1.1 Phenol

##### 4.1.2 O-cresol

##### 4.1.3 M-cresol and P-cresol

##### 4.1.4 Mixed Cresol

#### 4.2 Industrial Naphthalene

### 5. Coal Tar Industry Competition in China

#### 5.1 Regional Competition

##### 5.1.1 Shanxi

##### 5.1.2 Hebei

##### 5.1.3 Shandong

#### 5.2 Enterprise Competition

#### 5.3 Product Competition

### 6. Major Global Coal Tar Companies

#### 6.1 Koppers

##### 6.1.1 Profile

##### 6.1.2 Operation

##### 6.1.3 Operation of Carbon Materials & Chemicals Segment

##### 6.1.4 Business in China

---

**Table of contents**

<table>
<thead>
<tr>
<th></th>
<th>2.4.1 Export</th>
<th>4.2.1 Production</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Overview of Coal Tar</td>
<td>2.4.2 Import</td>
<td>4.2.2 Consumption</td>
</tr>
<tr>
<td>1.1 Definition &amp; Classification</td>
<td>2.4.3 Price</td>
<td>4.2.3 Import and Export</td>
</tr>
<tr>
<td>1.2 Preparation</td>
<td>2.5 Market Price</td>
<td>4.2.4 Price</td>
</tr>
<tr>
<td>1.3 Application</td>
<td>2.5.1 High-temperature Coal Tar</td>
<td>4.3 Coal Tar Pitch</td>
</tr>
<tr>
<td>1.4 Key Technologies</td>
<td>2.5.2 Medium-temperature Coal Tar</td>
<td>4.3.1 Supply and Demand</td>
</tr>
<tr>
<td>1.4.1 Coal Tar Distillation</td>
<td>2.5.3 Low-temperature Coal Tar</td>
<td>4.3.2 Application Market</td>
</tr>
<tr>
<td>1.4.2 Industrial Naphthalene Distillation</td>
<td>2.6 Development Trends</td>
<td>4.3.3 Price Trend</td>
</tr>
<tr>
<td>1.4.3 Elution of Fraction from Coal Tar Distillation</td>
<td></td>
<td>4.4 Others</td>
</tr>
<tr>
<td>1.4.4 Refining of Crude Anthracene</td>
<td></td>
<td>4.4.1 Anthracene Oil</td>
</tr>
<tr>
<td>1.4.5 Decomposition of Hydroxybenzene Natrium Salt</td>
<td></td>
<td>4.4.2 Light Oil</td>
</tr>
<tr>
<td>1.4.6 Preparation of Naphthalene</td>
<td></td>
<td>4.4.3 Wash Oil</td>
</tr>
<tr>
<td>1.4.7 Refining of Crude Hydroxybenzene</td>
<td>3.1.1 Market Size</td>
<td>5.1 Coal Tar Industry Competition in China</td>
</tr>
<tr>
<td>1.4.8 Refining of Crude Pyridine and Crude Quinoline</td>
<td>3.1.2 Structure</td>
<td>5.1.1 Shanxi</td>
</tr>
<tr>
<td>1.4.9 Production of Refined Anthracene, Refined Carbazole and Anthraquinone</td>
<td>3.1.3 Price</td>
<td>5.1.2 Hebei</td>
</tr>
<tr>
<td>2. Development Environment for China Coal Tar Industry</td>
<td>3.1.4 Import &amp; Export</td>
<td>5.1.3 Shandong</td>
</tr>
<tr>
<td>2.1 Policy Environment</td>
<td>3.2 Coke Industry</td>
<td>5.2 Enterprise Competition</td>
</tr>
<tr>
<td>2.2 Supply</td>
<td>3.2.1 Supply and Demand</td>
<td>5.3 Product Competition</td>
</tr>
<tr>
<td>2.2.1 High-temperature Coal Tar</td>
<td>3.2.2 Import &amp; Export</td>
<td></td>
</tr>
<tr>
<td>2.2.2 Medium-temperature Coal Tar</td>
<td>3.2.3 Price</td>
<td></td>
</tr>
<tr>
<td>2.2.3 Low-temperature Coal Tar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.3 Demand</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.3.1 Demand from Deep Processing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.3.2 Demand from Carbon Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.3.3 Demand from Fuel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.4 Import and Export</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

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
# Table of contents

6.2 RüTGERS Group
6.2.1 Profile
6.2.2 Operation
6.3 Nippon Steel & Sumikin Chemical Co. Ltd
6.3.1 Profile
6.3.2 Operation

7. Major Chinese Coal Tar Companies
7.1 Shanxi Coking Group Co., Ltd.
7.1.1 Profile
7.1.2 Operation
7.1.3 Project Investment
7.2 Shanxi Hongte Coal Chemical Industry Co., Ltd.
7.2.1 Profile
7.2.2 Capacity Expansion
7.3 Shanghai Baosteel Chemical Co., Ltd.
7.3.1 Profile
7.3.2 Operation
7.3.3 Key Projects
7.4 Baoshun Technology Co., Ltd.
7.4.1 Profile
7.4.2 Operation
7.4.3 Coal Tar Business
7.5 Wuhan Iron and Steel (Group) Corp.
7.5.1 Profile
7.5.2 Operation
7.5.3 Coal Tar Business
7.6 Jiangxi Black Cat Carbon Black Inc., Ltd.

7.6.1 Profile
7.6.2 Operation
7.6.3 Coal Tar Business
7.7 Guanghui Energy Co., Ltd.
7.7.1 Profile
7.7.2 Operation
7.7.3 Coal Tar Business
7.8 Huanghua Xinnuolixing Fine Chemical Stock Company Limited
7.8.1 Profile
7.8.2 Operation
7.8.3 Customers and Suppliers
7.8.4 Key Projects
7.9 Shenmu Tianyuan Chemical Co., Ltd.
7.9.1 Profile
7.9.2 Coal Tar Business
7.10 JFE Zhenxing Shandong Chemical Company Ltd
7.10.1 Profile
7.10.2 Capacity
7.11 Shanxi Yongdong Chemistry Industry Co., Ltd.
7.11.1 Profile
7.11.2 Operation
7.11.3 Coal Tar Business
7.12 Baotailong New Materials Co., Ltd.
7.12.1 Profile
7.12.2 Operation
7.12.3 Coal Tar Business
• Main Products Extracted from High-temperature Coal Tar and Their Applications
• Policies on Coal Chemical Industry in China
• Coal Tar Output and Growth Rate in China, 2013-2021E
• Coal Tar Output Structure in China by Product, 2016
• High Temperature Coal Tar Capacity and YoY Growth, 2010-2021E
• Operating Rate of High Temperature Coal Tar in China, 2017
• High Temperature Coal Tar Output and YoY Growth in China, 2010-2021E
• High Temperature Coal Tar Output Structure in China by Region, 2016
• Medium Temperature Coal Tar Output in China, 2013-2021E
• Operating Rate of Medium Temperature Coal Tar in China, 2017
• Apparent Consumption of Coal Tar in China, 2013-2021E
• Monthly Supply and Demand of Coal Tar in China, 2017
• High Temperature Coal Tar Demand in China, 2015-2021E
• Consumption Structure of Coal Tar in China, 2016
• Amount of Coal Tar Processed in China, 2007-2017
• Carbon Black Output and Coal Tar Consumption in China, 2007-2017
• China’s Coal Tar Export Volume, 2007-2017
• Export Destinations of Coal Tar from China by Export Volume, 2016
• China’s Coal Tar Import Volume, 2007-2017
• Import Sources of Coal Tar in China by Import Volume, 2016
• Average Import and Export Price of Coal Tar in China, 2010-2017
• Price Trend of Coal Tar in North China, 2009-2016
• Price Trend of Coal Tar in China, 2016
• Price of Coal Tar in China, 2017
• Price of High Temperature Coal Tar in China, 2014-2016
Selected Charts

- Price of High Temperature Coal Tar in China, 2017
- Price of Medium Temperature Coal Tar in China, 2016-2017
- Distribution of Anthracite Reserves in China
- Anthracite Output and YoY Growth in China, 2009-2017
- Apparent Consumption of Anthracite in China, 2009-2017
- Anthracite Output Structure in China by Region, 2015
- Price Trend of Thermal Coal in China, 2010-2016
- Price Trend of Anthracite in China, 2010-2016
- YoY Growth in Average Price of Anthracite in China, 2016-2017
- China’s Anthracite Import Volume, 2009-2016
- China’s Anthracite Export Volume, 2009-2016
- Coke Capacity and Output in China, 2009-2021E
- Coke Output Structure in China by Province, 2016
- China’s Coke Apparent Consumption, 2007-2021E
- Coke Demand Structure in China by Sector, 2016
- China’s Coke Import and Export Volume, 2007-2016
- Import and Export Prices of Coke in China, 2009-2016
- Price Trend of Coke in China, 2016-2017
- Global Coal Tar Deep Processing Capacity Structure by Region, 2016
- China’s Coal Tar Processing Capacity, 2007-2021E
- Coal Tar Deep Processing Capacity Structure in China by Region, 2017
- Capacity of Major Coal Tar Deep Processing Companies in China, 2017
- Internationally Famous Coal Tar Deep Processing Techniques and Their Characteristics
- Coal Tar Processing Procedure in China
- Phenol Capacity in China, 2010-2021E
Selected Charts

- Phenol Producers and Their Capacities in China, 2016
- Operating Rate of Phenol Installations in China, 2016-2017
- Phenol Capacity Planned/under Construction in China, 2017
- China’s Phenol Export & Import Volume, 2009-2017
- Average Import and Export Price of Phenol in China, 2009-2016
- China’s O-cresol Import and Export Volume, 2009-2017
- Average Import and Export Price of O-cresol in China, 2009-2016
- Monthly Import Volume and Average Price of M-cresol in China, 2016-2017
- Monthly Export Volume and Average Price of M-cresol in China, 2016-2017
- China’s Industrial Naphthalene Output, 2010-2021E
- China’s Consumption Structure of Industrial Naphthalene, 2016
- China’s Industrial Naphthalene Import and Export Volume, 2009-2016
- Average Import and Export Price of Industrial Naphthalene in China, 2009-2016
- Price Trend of Industrial Naphthalene in North China, 2009-2016
- Price of Industrial Naphthalene in China, 2017
- Monthly Output of Coal Tar Pitch in China, 2015-2017
- China’s Coal Tar Pitch Import and Export Volume, 2009-2017
- Average Import and Export Price of Coal Tar Pitch in China, 2009-2016
- Coal Tar Pitch Import Structure in China by Region, 2016
- Coal Tar Pitch Export Structure in China by Region, 2016
- Coal Tar Pitch Demand Structure in China, 2016
- Price Trend of Modified Coal Tar Pitch in China, 2014-2017
- Price Trend of Anthracene Oil in China, 2013-2017
- Price Trend of Wash Oil in China, 2016
- Geographical Distribution of Coal Tar Output in China, 2013-2016
Selected Charts

- Coal Tar Output and Growth Rate in Shanxi Province, 2012-2021E
- Capacity of Main Coal Tar Deep-processing Companies in Shanxi, 2016
- New Coal Tar Deep Processing Capacity in Shanxi Province, 2010-2020E
- Shanxi’s Coal Tar Deep Processing Projects, 2017
- Coal Tar Output and Growth Rate in Hebei Province, 2012-2021E
- Capacity of Main Coal Tar Deep-processing Companies in Hebei, 2016
- Coal Tar Output and Growth Rate in Shandong Province, 2012-2021E
- Capacity of Main Coal Tar Deep-processing Companies in Shandong, 2016
- Capacity of Main Coal Tar Deep-processing Companies in China, 2016
- Statistics on Capacity and Products of Global Coal Tar Companies, 2016
- Presence of Koppers’ Production Bases
- Carbon Materials and Chemicals of Koppers
- Net Sales and Net Income of Koppers, 2010-2017
- Net Sales Structure (%) of Koppers by Division, 2012-2017
- Net Sales Structure (%) of Koppers by Region, 2012-2016
- Application Structure of Koppers’ Products, 2016
- Koppers’ Coal Tar Processing Technology
- Net Sales and Operating Income of Koppers’ Carbon Materials & Chemicals Division, 2010-2017
- Distribution of Production Bases of Koppers’ Carbon Materials & Chemicals Division
- Revenue Structure (by Product) of Koppers’ Carbon Materials & Chemicals Division, 2011-2016
- Subsidiaries and Capacity of Rutgers
- Net Sales and Net Income of Nippon Steel & Sumikin Chemical, FY2009-FY2015
- Major Products of Nippon Steel & Sumikin Chemical
- Revenue and Net Income of Shanxi Coking Group, 2010-2017
- Output (by Product) of Shanxi Coking Group, 2013-2016
Selected Charts

- Sales Volume (by Product) of Shanxi Coking Group, 2013-2016
- Revenue Structure (by Product) of Shanxi Coking Group, 2012-2016
- Capacity and Capacity Utilization of Shanxi Coking Group’s Main Products, 2016
- Gross Margin (by Product) of Shanxi Coking Group, 2010-2016
- Sales of Shanghai Baosteel Chemical, 2007-2016
- Development Course of Shanghai Baosteel Chemical
- Industrial Layout of Baoshun Technology
- Revenue of Henan Baoshun Technology, 2011-2016
- Revenue Structure of Henan Baoshun Technology by Product, 2011-2015
- Production Bases and Product Capacity of Henan Baoshun Chemical Technology, 2016
- Output Breakdown of Baoshun Chemical by Product, 2011-2015
- Revenue and Net Income of Wuhan Iron and Steel (Group), 2010-2016
- Revenue and Net Income of Jiangxi Black Cat Carbon Black, 2010-2017
- Revenue Structure (by Product) of Jiangxi Black Cat Carbon Black, 2012-2017
- Revenue Structure (by Region) of Jiangxi Black Cat Carbon Black, 2012-2017
- Gross Margin (by Product) of Jiangxi Black Cat Carbon Black, 2010-2017
- Output and Sales Volume of Refined Coal Tar Products of Jiangxi Black Cat Carbon Black, 2015-2016
- Revenue and Net Income of Guanghui Energy, 2010-2017
- Revenue Structure (by Region) of Huanghua Xinnuolixing Fine Chemical, 2013-2016
- Huanghua Xinnuolixing Fine Chemical’s Revenue from Top 5 Clients and % of Total Revenue, 2013-2016
- Name List and Revenue Contribution of Huanghua Xinnuolixing Fine Chemical’s major Clients, 2016
- Huanghua Xinnuolixing Fine Chemical’s Procurement from Top 5 Suppliers and % of Total Procurement, 2013-2016
- Name List and Procurement Contribution of Huanghua Xinnuolixing Fine Chemical’s major Suppliers, 2016
Selected Charts

- Revenue and Net Income of Shanxi Yongdong Chemistry Industry, 2012-2017
- Revenue Structure (by Product) of Shanxi Yongdong Chemistry Industry, 2013-2017
- Revenue Structure (by Region) of Shanxi Yongdong Chemistry Industry, 2013-2017
- Gross Margin of Main Products of Shanxi Yongdong Chemistry Industry, 2012-2017
- Output and Sales Volume of Coal Tar Deep-processed Products of Shanxi Yongdong Chemistry Industry, 2012-2016
- Revenue and Net Income of Qitaihe Baotailong Coal & Coal Chemicals Public, 2011-2017
- Capacity of Main Products of Qitaihe Baotailong Coal & Coal Chemicals Public, 2016
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) ............. 2,500 USD
Hard copy ............................ 2,700 USD
PDF (Enterprisewide license) ........ 3,900 USD

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

Party A:
Name: 
Address:  
Contact Person:  Tel  
E-mail:  Fax  

Party B:
Name: Beijing Waterwood Technologies Co., Ltd (ResearchInChina)
Address: Room 502, Block 3, Tower C, Changyuan Tiandi Building, No. 18, Suzhou Street, Haidian District, Beijing, China 100080
Contact Person: Liao Yan  Phone: 86-10-82600828
E-mail: report@researchinchina.com  Fax: 86-10-82601570

Bank details: Beneficial Name: Beijing Waterwood Technologies Co., Ltd
Bank Name: Bank of Communications, Beijing Branch
Bank Address: NO 1 jinxiyuan shijicheng,Landianchang,Haidian District,Beijing
Bank Account No #: 110060668012015061217
Routing No #: 332906
Bank SWIFT Code: COMMCNSHBJG

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

RICDB (http://www.researchinchina.com/data/database.html), is a visible financial data base presented by map and graph covering global and China macroeconomic data, industry data, and company data. It has included nearly 500,000 indices (based on time series), and is continuing to update and increase. The most significant feature of this base is that the vast majority of indices (about 400,000) can be displayed in map.

After purchase of our report, you will be automatically granted to enjoy 2 weeks trial service of RICDB for free.

After trial, you can decide to become our formal member or not. We will try our best to meet your demand. For more information, please find at www.researchinchina.com

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