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.

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

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
Abstract

Needle coke mainly finds application in graphite electrode for electric steelmaking and in areas of lithium battery, nuclear power, aerospace, etc. Since 2009, the global demand for needle coke has shoot up in the wake of the gradual recovery in the industrial downstream. During the same period, the world’s industrial magnates have taken no actions to expand their capacities in a massive scale, out of consideration for holding precedence in prices, leading to lingeringly strained supply all over the world with the supply-demand gap in 2012 hitting 100,000 tons. In particular, China was the most distinctive with the short supply gapping 120,000 tons among the world’s leading needle coke consumers.

As the largest steel producer in the world, China has been maintaining huge demand for needle cokes. Moreover, ultra-high power graphite electrode is occupying increasing proportion as a result of continuously optimizing product structure in the graphite electrode industry, which, in turn, further fuels the demand for needle cokes. At the same time, China has smaller amount of needle coke enterprises which feature weak technological base and are huddled by the uncertainty of stable production and product quality. Thus, the needle coke capacity in China has seen slow growth with the supply gap increasingly widening. In 2009-2012, China’s demand for needle coke soared from 161,000 tons to 360,000 tons with the CAGR of 30.8% while the annual capacity surged from 130,000 tons to 240,000 tons with the CAGR of 22.7%. Given that most new industrial players encounter technical huddles and that industrial veterans witness limited capacity growth, the supply shortage is projected to go on in the upcoming two years.
As China is rich in coal and poor in oil, the supply of coal-based needle coke raw materials is abundant and China is technologically advanced in this regard. Nationwide, the existing needle coke capacity and most of planned and ongoing needle coke capacities are coal based needle cokes rather than oil-based needle cokes. Presently, large-sized ultra-high power graphite electrode products have become the mainstream in the graphite electrode industry. Because of its unique properties, oil-based needle cokes are ideal to make large-sized ultra-high power graphite electrode products. Hence, China needle coke market is witnessing structural imbalance between supply and demand.

Internationally, oil-based needle coke production technology is dominated by the US, Britain and Japan while the coal-based needle coke production technology is monopolized by Japan. ConocoPhillips, the world’s biggest producer of oil-based needle coke, realizes the needle coke capacity of 370,000 tons/a and the figure keeps stable in recent years. And the tycoon serves as one of benchmark makers when it comes to the oil-based needle coke prices globally.

Seadrift is the world’s second largest oil-based needle coke maker with the capacity recording 150,000 tons/a. In 2012, it was taken over by GTI, America’s largest graphite electrode manufacturer. According to GTI planning, the long-term capacity of the company will reach 240,000-25,000 tons/a.

C-Chem is a professional carbon product maker under Nippon Steel, and the world’s largest coal-based needle coke producer. In recent years, its needle coke capacity has greatly boosted through capacity expansion with the figure in 2012 soaring to 170,000 tons/a.

The 6-chapter report conducts an in-depth analysis on the development background and market pattern of global and China needle coke industry, highlights the business performance of 16 large industrial players at home and abroad, and predicts the development trend of the industry.
1. Overview of Needle Coke
   1.1 Profile
   1.2 Classification and Application
   1.3 Industrial Chain

2. Development of Global Needle Coke Industry
   2.1 Development Overview
   2.2 Supply
   2.3 Demand
   2.4 Technology Status
   2.5 Competition Pattern
   2.6 USA
   2.7 Japan
   2.8 UK
   Summary

3. Development of China Needle Coke Industry
   3.1 Development Environment
      3.1.1 Policy Environment
      3.1.2 Technology Environment
      3.1.3 Trade Environment
   3.2 Supply
   3.3 Demand
   3.4 Competition Pattern
   3.5 Import & Export
   3.6 Major Projects Planned and under Construction
   3.7 Price Trend
   Summary

4. Development of China Graphite Electrode Industry
   4.1 Development Environment
   4.2 Production
   4.3 Demand
   4.4 Competition Pattern
   Summary

5. Key Companies Worldwide
   5.1 ConocoPhillips
      5.1.1 Profile
      5.1.2 Operation
      5.1.3 Needle Coke Business
   5.2 Seadrift
      5.2.1 Profile
      5.2.2 Needle Coke Business
   5.3 JX Holdings Inc
      5.3.1 Profile
      5.3.2 Operation
      5.3.3 Needle Coke Business
   5.4 C-Chem
      5.4.1 Profile
      5.4.2 Needle Coke Business
   5.5 Mitsubishi Chemical (MC)
   5.6 Petrocokes Japan Limited
   5.7 Indian Oil Company Limited
   Summary

6. Key Companies in China
   6.1 Fangda Carbon
      6.1.1 Profile
      6.1.2 Operation
      6.1.3 Needle Coke Project
   6.2 Shanxi Hongte Coal Chemical Industry Co., Ltd
      6.2.1 Profile
      6.2.2 Operation
      6.2.3 Key Projects
   6.3 Jinzhou Petrochemical Co., Ltd
      6.3.1 Profile
      6.3.2 Operation
      6.3.3 Needle Coke Business
   6.4 Sinosteel Anshan Research Institute of Thermo-Energy Co., Ltd. (RDTE)
      6.5 Baosteel Chemical
   6.6 Shandong Haihua Group Co., Ltd
   6.7 Jinjing Yankuang Kelan Coke Co., Ltd
   6.8 Qitaihe Baotailong Coal&Coal Chemicals Public Co., Ltd
      6.9 SY Carbon
      6.10 Others
      6.10.1 Jinzhou Coal and Coke Group
      6.10.2 JN Carbon
      6.10.3 Shoushan Coking
   Summary
• Industrial Chain of Needle Coke
• Production Capacity of Needle Coke Worldwide, 2006-2015E
• Production Capacity Structure of Needle Coke Worldwide by Products, 2006-2013
• Output of EAF Steel and Demand of Graphite Electrode Worldwide, 2007-2013
• Demand of Needle Coke Worldwide, 2007-2013
• Processes and Features of Coal-based Needle Coke Worldwide
• Processes to Produce Needle Coke with Different Raw Materials
• Production Capacity and Products of Major Manufacturers Worldwide (Except China), 2012
• Production Capacity and Production Bases of Needle Coke Enterprises in USA, 2012
• Production Capacity and Product Types of Main Needle Coke Enterprises in Japan, 2012
• Production Capacity and Production Bases of Needle Coke Enterprises in Britain, 2012
• Production Capacity and Demand of Needle Coke Worldwide, 2007-2013
• Production Capacity of Needle Coke in China, 2006-2015E
• Production Capacity Structure of Needle Coke in China by Product, 2006-2015E
• Demand of Needle Coke in China, 2006-2015E
• Supply Gap of Needle Coke in China, 2006-2015E
• Production Capacity of Needle Coke Manufacturers in China, 2012
• Market Share of Needle Coke Manufacturers in China, 2012
• Import Volume of Needle Coke in China, 2006-2013Q1
• Import Volume of Needle Coke in China by Product, 2006-2013Q1
• Import Volume, Import Value and Average Price of Needle Coke in China by Country, 2013H1
• Major Needle Coke Projects Planned and Under Construction in China, 2011-2012
• Average Prices of Imported Coal-based and Petroleum-based Needle Coke, 2009-2013
• Production Capacity and Demand of Needle Coke in China, 2006-2015E
• Output of EAF Steel and % of Crude Steel in China, 2006-2015E
• Output of Graphite Electrode in China, 2006-2015E
• Output of Graphite Electrode in China by Product, 2006-2013
• Product Mix of Graphite Electrode in China, 2006-2012
• Demand of Graphite Electrode in China, 2006-2012
• Demand Structure of Graphite Electrode in China, 2006-2012
• Production Capacity of Ultra High Power Graphite Electrode of TOP10 Manufacturers in China, 2012
• Production Capacity of High Power Graphite Electrode of TOP10 Manufacturers in China, 2012
• Output and Demand of Graphite Electrode in China by Products, 2006-2012
• Revenue and Net Income of ConocoPhillips, 2008-2013
• Performance Indicators of Needle Coke Produced in UK-based Humber Production Site of Conoco INC
• Needle Coke Capacity of CONOCO INC’s Production Bases, 2012
• Subordinate Enterprises and Main Businesses of JX Holdings Inc, 2012
• Revenue and Net Income of JX Holdings Inc, FY2010-FY2014
• Production Capacity and Bases of Needle Coke of JX Holdings Inc, 2012
• Needle Coke Industry Chain of C-Chem, 2012
• Performance Indicators of Needle Coke of C-Chem
• Revenue and Net Income of MC, FY2008-FY2012
• Capacity Expansion Plan of Needle Coke Raw Materials of MC, 2008-2012
• Production Capacity of Needle Coke of MC, 2008-2014 E
• Production Capacity and Bases of Petrocokes, 2012
• Revenue and Net Income of India Oil, FY2008-FY2015
• Production Capacity of Major Needle Coke Manufacturers Worldwide, 2012
• Revenue and Net Income of Fangda Carbon, 2008-2015E
• Needle Coke Projects of Fangda Carbon, 2013
• Sales of Hongte, 2005-2011
• Needle Coke Projects of Hongte, 2011-2013
• Production Capacity of Needle Coke of Hongte, 2006-2012
• Performance Indicators of Needle Coke of Hongte, 2012
• Sales of Jinzhou Petrochemical, 2008-2012
• Actual Capacity of Needle Coke of Jinzhou Petrochemical, 2006-2012
• Sales of Baosteel Chemical, 2007-2012
• Revenue and Net Income of Baotailong, 2008-2015 E
• Needle Coke Projects of Baotailong, 2013
• Production Capacity of Main Products of SY Carbon, 2013
• Needle Coke Projects of Jinzhou Coal and Coke Group, 2012
• Production Capacity of Main Products of JN Carbon, 2013
• Needle Coke Projects of Shoushan Coking, 2013
• Production in Operation, Planned and Under Construction of Needle Coke Manufacturers in China, 2012
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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 
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