Global and China Isostatic Graphite Industry Report, 2015-2018

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

Isostatic graphite is a new type of graphite material developed in the 1960s. It has seen a wide range of applications in photovoltaic, electrical discharge machining, metallurgy, new nuclear power, and other fields.

In 2006, the rapid rise of global photovoltaic industry broke the original balance between supply and demand of isostatic graphite market, which promoted isostatic graphite production companies to expand capacity successively to meet the needs of photovoltaic market. China as the world’s largest producer of photovoltaic products therefore becomes a hot investment area of isostatic graphite capacity expansion and the most important product consumer market.

In 2012, the global photovoltaic industry encountered a severe overcapacity crisis, although the isostatic graphite industry maintained output growth thanks to newly-added capacity, corporate profitability declined sharply. In 2013, China introduced a series of stimulus policies to gradually recover the photovoltaic industry, and then kept the increase in demand for isostatic graphite. In 2015, the global isostatic graphite production reached around 100 kilotons.

Isostatic graphite is mainly produced by Japanese, European and American companies. Among them, Japan-based TOYO TANSO, Tokai, IBIDEN, Germany-based SGL, and France-based Mersen boast capacity of over 10 kilotons. And, SGL, Mersen and TOYO TANSO have production bases in China.

Since 2006, with the dramatic development of photovoltaic industry and fast-expanding demand for isostatic graphite in China, Mersen, SGL and other foreign companies have built factories in China, plus the ever-growing number of isostatic graphite projects invested by local companies, China’s isostatic graphite capacity has seen vigorous growth, making the country one of the important isostatic graphite producing areas in the world.

In 2015, China’s isostatic graphite production reached around 34 kilotons, but there were still about 30% of demand relying on import, mainly for large-size, fine-structure, high-end isostatic graphite products. In China, isostatic graphite is primarily used in photovoltaic industry (more than 60%), and with the nuclear power reboot in 2015, its demand for isostatic graphite increased greatly, with an estimated application ratio of 8% or so.

Major isostatic graphite production enterprises in China are Baofeng Five-star Graphite Co., Ltd., Fangda Carbon New Material Co., Ltd., and Datong Xincheng New Material Co., Ltd., which posted isostatic graphite capacity of 10 kilotons, 4 kilotons and 4 kilotons respectively in 2015. Among them, Datong Xincheng New Material Co., Ltd. put its isostatic graphite capacity into production in September 2015. Besides, there are many proposed / under-construction isostatic graphite projects in China, e.g. Fangda Carbon’s 20 kt/a isostatic graphite project.
This report mainly contains:

- Development status, supply and demand, competition pattern and growth prediction of global isostatic graphite industry;
- Development status, supply and demand, competition pattern and growth prediction of Chinese isostatic graphite industry;
- Demand from downstream sectors e.g. photovoltaic, electrical discharge machining and nuclear power for isostatic graphite in China;
- Operation, isostatic graphite business analysis and development prospects of 8 global and 15 Chinese isostatic graphite production enterprises.

Source: Global and China Isostatic Graphite Industry Report, 2015-2018 by ResearchInChina
1. Overview of Isostatic Graphite
   1.1 Profile
   1.2 Application
   1.3 Industry Chain

2. Development of Global Isostatic Graphite Industry
   2.1 Development Status
   2.2 Supply
   2.3 Demand
   2.4 Competition Pattern
   2.5 USA
   2.6 Japan
   2.7 Germany

3. Development of China Isostatic Graphite Industry
   3.1 Development Environment
      3.1.1 Policy
      3.1.2 Production Technology
   3.2 Supply
   3.3 Demand
      3.3.1 Quantity Demanded
      3.3.2 Demand Structure
   3.4 Import and Export
   3.5 Competition Pattern
   3.6 Proposed / Under Construction Projects
   3.7 Problems

4. Development of Downstream Sectors
   4.1 Photovoltaic Industry
      4.1.1 Development Environment
      4.1.2 Market Size
      4.1.3 Isostatic Graphite Demand
      4.2 Electrical Discharge Machining Industry

5. Key Enterprises Worldwide
   5.1 Poco Graphite
      5.1.1 Profile
      5.1.2 Isostatic Graphite Business
   5.2 GrafTech
      5.2.1 Profile
      5.2.2 Operation
      5.2.3 Isostatic Graphite Business
   5.3 Mersen
      5.3.1 Profile
      5.3.2 Operation
      5.3.3 Isostatic Graphite Business
   5.4 TOYO TANSO
      5.4.1 Profile
      5.4.2 Operation
      5.4.3 Isostatic Graphite Business
   5.5 Tokai Carbon
      5.5.1 Profile
      5.5.2 Operation
      5.5.3 Isostatic Graphite Business
   5.6 SGL Group
      5.6.1 Profile
      5.6.2 Operation
      5.6.3 Operation of Graphite Materials & Systems Segment
   5.7 IBIDEN
      5.7.1 Profile

6. Key Enterprises in China
   6.1 Fangda Carbon New Material Co., Ltd
   6.2 Jilin Carbon Co., Ltd
   6.3 Datong Xincheng New Material Co., Ltd
   6.4 Hunan Jiarong Red Arrow Co., Ltd
   6.5 Sinosteel Advanced Material (Zhejiang) Co., Ltd
   6.6 Mersen (Chongqing) Co., Ltd
   6.7 Pingdingshan Tianbao Carbon Co., Ltd
   6.8 Liaoning Dahua Glory Special Graphite Co., Ltd
   6.9 Sichuan Guanghan Shida Carbon Inc
   6.10 Others
      6.10.1 Hemsun High Purity Graphite Technology Co., Ltd
      6.10.2 Henan Provincial Special Thermal Engineering Furnace Material Co., Ltd
      6.10.3 Baofeng Five-star Graphite Co., Ltd
      6.10.4 Hoken Carbon Techniques Co., Ltd
      6.10.5 Sichuan Qingyang New Material Technology Co., Ltd
      6.10.6 Hebei Haili Special Graphite Manufacturing Co., Ltd
   6.11 Summary

7. Summary and Prediction
   7.1 Summary
   7.2 Prediction
• Application of Isostatic Graphite
• Isostatic Graphite Industry Chain
• Global Isostatic Graphite Output, 2009-2015
• Global Isostatic Graphite Demand, 2009-2015
• Global Demand for Isostatic Graphite by Field, 2015
• Capacity and On-going Projects of Global Top 10 Isostatic Graphite Enterprises, 2015
• Capacity of American Isostatic Graphite Producers, 2015
• Capacity of Japanese Isostatic Graphite Producers, 2015
• Capacity of German Isostatic Graphite Producers, 2015
• Policies on Isostatic Graphite Industry in China, 2006-2015
• Isostatic Graphite Output of China, 2009-2015
• Demand for Isostatic Graphite in China, 2009-2015
• Demand for Isostatic Graphite in China by Field, 2015
• Net Import Volume of Isostatic Graphite in China, 2009-2015
• Capacity and Maximum Specification of Major Isostatic Graphite Enterprises in China, 2015
• Parameters of Isostatic Pressing Machines of Isostatic Graphite Manufacturers in China
• Isostatic Graphite Projects under Planning/Construction in China, 2015
• Performance Comparison between Isostatic Graphite Products Made by Chinese and Foreign Enterprises
• Isostatic Graphite Industry in China and Foreign Countries
• Installed Capacity of PV in China, 2009-2015
• Solar Cell Output of China, 2009-2015
• Crystalline Silicon Cell Output and Isostatic Graphite Demand in China, 2011-2015
• Output Value of Mould Industry in China, 2009-2015
• Demand for Isostatic Graphite for Electrical Discharge Machining in China, 2009-2015
• Demand for Isostatic Graphite of China Nuclear Power Industry, 2015-2020E
• Demand for Isostatic Graphite in PV and Electrical Discharge Machining Industries in China, 2011-2015
• Performance Index of POCO’s Isostatic Graphite for Electrical Discharge Machining
• Revenue and Net Income of GrafTech, 2010-2014
• Performance Index of Isostatic Graphite Products of GrafTech
• Revenue and Net Income of Mersen, 2010-2015
• Revenue of Mersen by Product, 2013-2015
• Revenue of Mersen by Region, 2013-2015
• Isostatic Graphite Capacity of Mersen, 2006-2015
• Revenue and Net Income of TOYO TANSO, FY2010-FY2015
• Isostatic Graphite Production and Processing Institutions Affiliated to TOYO TANSO
• Development History of Isostatic Graphite Business of TOYO TANSO
• Isostatic Graphite Capacity of TOYO TANSO, 2006-2015
• Main Parameters of Isostatic Graphite of Toyo Tanso
• Revenue and Net Income of Tokai Carbon, 2010-2015
• Revenue Structure of Tokai Carbon by Product, 2014
• Isostatic Graphite Capacity of Tokai Carbon, 2006-2015
• Performance Index of Isostatic Graphite G Series of Tokai Carbon, 2014
• Performance Index of Tokai Carbon’s Isostatic Graphite for Electrical Discharge Machining, 2014
• Revenue and Net Income of SGL, 2010-2015
• Revenue of SGL (by Product), 2015 Q1-Q3
• Revenue of SGL by Region, 2014
• Revenue and EBITDA of SGL’s Graphite Materials & Systems Segment, 2013-2015
• Downstream Application of SGL’s Graphite Materials & Systems Segment Products, 2014
• Isostatic Graphite Capacity of SGL, 2006-2015
• Revenue and Net Income of IBIDEN, FY2010-FY2015
• Revenue of IBIDEN by Product, FY2014
• Revenue of IBIDEN by Region, FY2014
• Coverage of Isostatic Graphite Products of IBIDEN
• Isostatic Graphite Capacity of IBIDEN, 2008-2015
• Isostatic Graphite Capacity of NTC, 2010-2015
• Capacity of Global Leading Isostatic Graphite Manufacturers, 2015
• Revenue and Net Income of Fangda Carbon, 2011-2015
• Revenue Breakdown of Fangda Carbon New Material by Product, 2013-2015
• Output of Main Products of Fangda Carbon New Material, 2013-2015
• Revenue Structure of Fangda Carbon New Material by Product, 2013-2015
• Revenue Breakdown of Fangda Carbon New Material by Region, 2013-2015
• Revenue Structure of Fangda Carbon New Material by Region, 2013-2015
• Gross Margin of Fangda Carbon New Material by Product, 2013-2015
• On-going Projects of Fangda Carbon New Material, 2015
• Revenue and Net Income of Chengdu Carbon, 2013-2015
• Capacity and Output of Isostatic Graphite of Chengdu Carbon, 2008-2014
• Performance Index and Application of Isostatic Graphite Products of Chengdu Carbon
• Isostatic Graphite Products Specifications of Chengdu Carbon
• Revenue and Net Income of Fangda Carbon New Material, 2014-2018E
• Revenue and Net Income of SINO Steel Jilin Carbon Co., Ltd., 2010-2014
• Revenue Breakdown of SINO Steel Jilin Carbon by Product, 2012-2014
• Revenue Structure of SINO Steel Jilin Carbon by Product, 2012-2014
• Revenue Breakdown of SINO Steel Jilin Carbon by Region, 2012-2014
• Revenue Structure of SINO Steel Jilin Carbon by Region, 2012-2014
• Gross Margin of SINO Steel Jilin Carbon by Product, 2010-2014
• Revenue and Net Income of Datong Xincheng New Material, 2011-2015
• Revenue Breakdown of Datong Xincheng New Material by Product, 2012-2014
• Revenue Structure of Datong Xincheng New Material by Product, 2012-2014
• Gross Margin of Datong Xincheng New Material by Product, 2011-2015
• Datong Xincheng New Material’s Revenue from Top 5 Customers and % of Total Revenue, 2012-2014
• Datong Xincheng New Material’s Revenue from Top 5 Customers and % of Total Revenue, 2014
• Datong Xincheng New Material’s Procurement from Top 5 Suppliers and % of Total Procurement, 2012-2014
• Datong Xincheng New Material’s Procurement from Top 5 Suppliers and % of Total Procurement, 2014
• Revenue and Net Income of Datong Xincheng New Material, 2014-2018E
• Isostatic Graphite Project of Sinosteel Advanced Material (Zhejiang)
• Isostatic Graphite Project of Mersen (Chongqing)
• Isostatic Graphite Capacity of Mersen (Chongqing), 2008-2015
• Performance Index of Isostatic Graphite Products of Pingdingshan Tianbao Carbon
• Isostatic Graphite Projects of Liaoning Dahua Glory Special Graphite
• Capacity of Subordinated Enterprises of Shida Carbon, 2015
• Revenue and Net Income of Shida Carbon, 2010-2014
• Isostatic Graphite Projects of Shida Carbon
• Isostatic Graphite Projects of Hemsun High Purity Graphite Technology
• Performance Index of Isostatic Graphite Products of Hemsun High Purity Graphite Technology
• Major Isostatic Graphite Enterprises in China and Their Capacities, 2015
• Output and Demand of Isostatic Graphite Worldwide, 2009-2015
• Output and Demand of Isostatic Graphite in China, 2009-2015
• Global Isostatic Graphite Output and Demand, 2014-2018E
• Output and Demand for Isostatic Graphite in China, 2014-2018E
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

<table>
<thead>
<tr>
<th>Party A:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name:</td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
</tr>
<tr>
<td>Contact Person:</td>
<td>Tel</td>
</tr>
<tr>
<td>E-mail:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Party B:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name:</td>
<td>Beijing Waterwood Technologies Co., Ltd (ResearchInChina)</td>
</tr>
<tr>
<td>Address:</td>
<td>Room 502, Block 3, Tower C, Changyuan Tiandi Building, No. 18, Suzhou Street, Haidian District, Beijing, China 100080</td>
</tr>
<tr>
<td>Contact Person:</td>
<td>Liao Yan</td>
</tr>
<tr>
<td>E-mail:</td>
<td><a href="mailto:report@researchinchina.com">report@researchinchina.com</a></td>
</tr>
</tbody>
</table>
| 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: COMMCCNSBJG |

Choose type of format

- PDF (Single user license) ............ 2,050 USD
- Hard copy .............................. 2,200 USD
- PDF (Enterprisewide license) ........ 3,200 USD

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

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