This report

◆ Analyzes development of Titanium Dioxide industry worldwide and China

◆ Focuses on the market pattern and Titanium Dioxide industry chain

◆ Highlights the operation of Titanium Dioxide enterprises in China and worldwide, also development trend forecast and investment advice

Related Products

China Fluorite Industry Report, 2010


China Ceramic Industry Report, 2010-2011

Global and China Rubber Auxiliary Industry Report, 2010-2011

Global and China Styrene Butadiene Rubber (SBR) Industry Report, 2010

Global and China Organic Silicon Industry Report, 2010-2011

Please visit our website to order this report and find more information about other titles at www.researchinchina.com
Abstract

Over the past decade, global titanium dioxide industry has maintained stable development on the whole. Affected by the financial crisis, the capacity of titanium dioxide shrank around the world in 2008. However, driven by the recovery of paint, papermaking, plastic and other application industries in the downstream, titanium dioxide industry has witnessed robust growth since the end of the second quarter of 2009.

In 2010, the titanium dioxide in global market was in tight supply and the market price rocketed as well. Therefore, China’s titanium dioxide began to present its price advantage in the international market and the export volume significantly increased, which led to the short supply and soaring price of titanium dioxide as well as capital increase and production expansion of titanium dioxide enterprises in China. The total output of domestic titanium dioxide hit historical record of 1,472,000 tons in 2010, up 425,000 tons compared with that in 2009, with the growth rate of 40.8%. Meanwhile, the capacity of titanium dioxide in China reached 2,300,000 tons in 2010.

Since 2010, both Chinese and world economy began to witness stability and recovery. But the recovery is not based on solid foundation and there are still a lot of uncertainties. If the world economy falls into a double-dip recession, the market price of titanium dioxide may again experience irrational fluctuations.
**Shandong Dongjia:** with capacity of 160,000 tons of titanium dioxide per year, the company produces more than 10 types of rutile titanium dioxide and titanium dioxide for chemical fiber including SR-235S, R-235, SR-235, SR-235 and BA01-01. In 2010, Shandong Dongjia Group produced 116,000 tons of titanium dioxide, attaining year-on-year growth of 19.65%, and achieved sales revenue of RMB 1.443 billion, up 28.34% YoY. Between 2004 and 2010, the Group ranked first in terms of both output and sales volume of titanium dioxide in China for seven consecutive years.

**Henan Billions:** In 2010, its export volume of titanium dioxide reached 51,900 tons, ranking first in China for three consecutive years. Billions mainly produced high value-added rutile titanium dioxide instead of anatase type in 2010.

**Sichuan Lomon:** the company can produce 80,000 tons of rutile titanium dioxide per year and its main products are R996 and other high-end general-grade rutile titanium dioxide. From 2007 to 2010, Sichuan Lomon had been expanding its capacity of titanium dioxide, and its output grew to 100,700 tons in 2010 from 63,800 tons in 2007, with CAGR of 16.43%.

Anhui Annada: established in March 2005, it is the largest titanium dioxide manufacturer in Anhui Province. In 2010, its output and sales volume of titanium dioxide increased by 49.0% and 37.77% respectively compared with those in 2009. Compared with its peers, Annada takes the upper hand in sulfuric acid supply, transportation, procurement price and transportation costs.

CNNC Huayuan Titanium Dioxide: the company was founded in 1989, with registered capital of RMB 190 million. It went public on Shenzhen Stock Exchange in 2007. In 2010, its output of titanium dioxide grew by 148.26% YoY, and net income rose by 107.36% YoY to RMB 10,965,900.

Pangang Group Steel Vanadium & Titanium: its current capacity is 50,000 tons per year and it produces more than 10 types of rutile and anatase titanium dioxide including R-244, R-248, R-258 and A-111. Its output of titanium dioxide accounted for 4.25% of Chinese market in 2010.
1. Overview of Titanium Dioxide Industry
   1.1 Definition
   1.2 Classification
   1.3 Production Process
   1.4 Industry Chain
   1.5 Policies
      1.5.1 Industrial Policy
      1.5.2 Import & Export Policy
2. Global Titanium Dioxide Market
   2.1 Output and Capacity
      2.1.1 Output and Growth Rate
      2.1.2 Capacity and Growth Rate
   2.2 Sales Volume
   2.3 Import & Export
      2.3.1 Import
      2.3.2 Export
3. Titanium Dioxide Market in China
   3.1 Output and Capacity
      3.1.1 Output
      3.1.2 Capacity
   3.2 Output Structure
      3.2.1 Pigment and Non-pigment
      3.2.2 Rutile and Anatase
   3.3 Sales Volume
   3.4 Import & Export
      3.4.1 Import
      3.4.2 Export
   3.5 Price
4. Market Pattern of Titanium Dioxide Industry
   4.1 Market Structure of Global Titanium Dioxide
   4.2 Market Structure of China Titanium Dioxide
   4.3 Market Pattern of China Titanium Dioxide
5. Industry Chain—Upstream
   5.1 Introduction to Titanium
   5.2 Titanium Concentrate
      5.2.1 Reserves Distribution of Global Titanium Concentrate
      5.2.2 Output Distribution of Global Titanium Concentrate
      5.2.3 Import & Export of Global Titanium Concentrate
      5.2.4 Titanium Resources in China
      5.2.5 Import of Titanium Ore in China
      5.2.6 Price Trend of Titanium Concentrate
   5.3 Sulfuric Acid
      5.3.1 Output
      5.3.2 Price Trend
   5.4 Cost Analysis of Titanium Dioxide
6. Industry Chain—Downstream
   6.1 Demand Structure
   6.2 Coating Industry
      6.2.1 Global Coating Industry
      6.2.2 Coating Industry in China
   6.3 Plastic Industry
   6.4 Papermaking Industry
7. Key Titanium Dioxide Enterprises in China
   7.1 Shandong Dongjia Group
      7.1.1 Profile
      7.1.2 Operation
      7.1.3 Position in the Industry
      7.1.4 IPO
      7.2 Henan Billions Chemicals Co., Ltd.
      7.3 Sichuan Lomon Titanium Co., Ltd.
      7.4 Anhui Annada Titanium Industry Co., Ltd.
      7.5 CNNC Huayuan Titanium Dioxide Co., Ltd.
      7.6 Pangang Group Steel Vanadium & Titanium Co., Ltd.
      7.7 Yunnan Dahutong Industry & Trading Co., Ltd.
      7.8 Ningbo Xinfu Titanium Dioxide Co., Ltd
      7.9 Nanjing Titanium Dioxide Chemical Co., Ltd.
      7.10 Jiangsu Taibai Group Co., Ltd.
      7.11 Blue Star New Chemical Materials Co., Ltd. (Guangxi Branch)
8. Key Foreign Titanium Dioxide Enterprises
   8.1 DuPont
   8.2 Cristal
   8.3 Huntsman
   8.4 Kronos
   8.5 Tronox
9. Industry Development Trend Forecast and Investment Advice
   9.1 Demand
   9.2 Supply
   9.3 Price and Gross Margin
      9.3.1 Supply-demand Balance Sheet: Supply Gap
      9.3.2 Room for Price Rise
      9.3.3 Gross Margin
   9.4 Investment Advice
      9.4.1 Opportunities
      9.4.2 Risks
Selected Charts

- Titanium Dioxide Industry Chain
- Policies and Tariffs Concerning the Export of Titanium Dioxide in China
- Output of Titanium Dioxide and Its Growth Rate Worldwide, 2004-2010
- Capacity of Titanium Dioxide and Its Growth Rate Worldwide, 2003-2010
- Capacity Distribution of Titanium Dioxide Worldwide by Country, 2010
- Closed or Idle Capacity of Titanium Dioxide Worldwide, 2009
- New Capacity of Titanium Dioxide Worldwide since H2 2010
- Consumption of Titanium Dioxide and Its Growth Rate Worldwide, 2004-2010
- Import of Titanium Dioxide by Country, 2010
- Output of Titanium Dioxide and Its Growth Rate in China, 1999-2010
- Capacity of Titanium Dioxide and Its Growth Rate in China, 1999-2010
- New Capacity of Titanium Dioxide in China since H2 2010
- Output Distribution of Titanium Dioxide in China, 2010
- Output of Rutile Titanium Dioxide and Its Proportion in China, 2000-2010
- Consumption of Titanium Dioxide and Its Growth Rate in China, 1999-2010
- Import Volume of Titanium Dioxide and Its Growth Rate in China, 1999-2010
- Export Volume of Titanium Dioxide and Its Growth Rate in China, 1999-2010
- Export of Titanium Dioxide in China by Destination, Mar.-Apr.2011
- Price Trend of Titanium Dioxide in China, 1999-2010
- Gross Margin of Anatase Titanium Dioxide Enterprises in China, 2009-2011
- Capacity Distribution of Titanium Dioxide Worldwide by Company, 2010
- Capacity of Key Titanium Dioxide Suppliers in the World, 2010
- Plants of Huntsman in the World
- Output and Proportion of Top 10 Titanium Dioxide Producers in China, 2010
- Titanium Application in the World
Ilmenite Reserves in the World
Output of Ilmenite in the World, 2010
Import and Export of Titanium Concentrate in the World, 2010
Titanium Ore Import of USA, Japan and China
Policies of Titanium Ore Suppliers in the World
Titanium Concentrate Suppliers of China, 2010
Output of Titanium Concentrate in Vietnam, 2005-2009
Prices of Titanium Concentrate in China
Output of Concentrated Sulfuric Acid and Its Growth Rate in China, 2000-2011
Prices of Concentrated Sulfuric Acid in China, 2002-2011
Cost Estimate of Anatase Titanium Dioxide Produced by Sulfuric Acid Process
Consumption Structure of Titanium Dioxide Worldwide
Consumption Structure of Titanium Dioxide in China
Titanium Dioxide Application Structure of Paint Industry Segments Worldwide, 2010
Output of Paint Industry and Its Growth Rate in China, 2001-2010
Output of Plastic Industry and Its Growth Rate in China, 2001-2010
Output of Machine-made Paper Industry and Its Growth Rate in China, 2001-2010
Companies Held and Controlled by Shandong Dongjia Group
Titanium Dioxide Capacity and Output of Shandong Dongjia Group, 2007-2010
Titanium Dioxide Sales of Shandong Dongjia Group, 2007-2010
Titanium Dioxide Sales of Shandong Dongjia Group by Region, 2007-2010
Titanium Dioxide Market Share of Shandong Dongjia Group, 2007-2010
IPO of Shandong Dongjia Group
Financial Data of Billions, 2008-2010
Financial Indicators of Billions, 2008-2010
• Titanium Dioxide Output and Export Volume of Billions, 2008-2010
• Income Structure of Billions’ Titanium Dioxide Business by Product, 2008-2010
• Operating Revenue of Billions by Region, 2008-2010
• Gross Profit and Gross Margin of Titanium Dioxide of Billions, 2008-2010
• Comparison of Gross Margin between Billions and Industry Peers, 2007-2010
• Titanium Dioxide Market Share of Billions, 2008-2010
• Comparison between Billions and Major Rivals by Key Business Indicators, 2008-2010
• Fundraising and Investment Projects of Billions
• Titanium Dioxide Output and Capacity of Lomon, 2007-2010
• Titanium Dioxide Market Share of Lomon, 2007-2010
• Titanium Dioxide Output of Annada, 2007-2010
• Titanium Dioxide Market Share of Annada, 2007-2010
• Operating Revenue of Annada, 2007-2010
• Operating Revenue Structure of Annada by Product, 2008-2010
• Operating Revenue of Annada by Region, 2010
• Titanium Dioxide Gross Margin of Annada, 2007-2010
• Titanium Dioxide Output of CNNC Hua Yuan, 2007-2010
• Titanium Dioxide Market Share of CNNC Hua Yuan, 2007-2010
• Operating Revenue and Operating Income of CNNC Hua Yuan, 2010
• Main Business of CNNC Hua Yuan by Region, 2010
• Gross Margin of CNNC Hua Yuan, 2008-2010
• Business Indicators of Yunnan Dahutong, 2007-2008
• Business Indicators of Ningbo Xinfu, 2007-2009
• Business Indicators of Nanjing Titanium Dioxide Chemical, 2007-2008
• Business Indicators of Jiangsu Taibai Group, 2007-2009
• Business Indicators of Bluestar New Chemical Materials, 2008
• Titanium Dioxide Plants of DuPont
• Titanium Dioxide Price Rise of DuPont
• Acquisitions of Cristal
• Titanium Dioxide Price Rise of Cristal
• Titanium Dioxide Plants of Huntsman
• Titanium Dioxide Price Rise of Huntsman
• Titanium Dioxide Plants of Kronos
• Titanium Dioxide Price Rise of Kronos
• Titanium Dioxide Plants of Tronox
• Titanium Dioxide Price Rise of Tronox
• Comparison between China and USA by Titanium Dioxide Demand
• Relationship between the Demand for Titanium Dioxide and Crude Steel in China
• Forecast of Titanium Dioxide Demand in China, 2011-2015
• Forecast of Titanium Dioxide Demand in the World, 2010-2015
• Global Demand for Titanium Dioxide, 1995-2015
• Forecast of Titanium Dioxide Supply in the World, 2010-2014
• Balance Sheet of Titanium Dioxide Demand and Supply in the World, 2009-2015
• Prices of Titanium Dioxide, 1939-2011
• Gross Margin of Titanium Dioxide, 1941-2010
How to Buy

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/ 82600893

Choose type of format
- Hard copy ........................................ 2000 USD
- PDF (Single user license) .............. 1900 USD
- PDF (Enterprisewide license) ...... 3000 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>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Party B:
- Name: Beijing Waterwood Technologies Co., Ltd (ResearchInChina)
- Address: Room 1008, A2, Tower A, 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