



# **China Specialty Synthetic Rubber Industry Report, 2010**

**Mar. 2011**

## ***This report***

- ◆ **Analyzes the status quo and development prospect of specialty synthetic rubber industry.**
- ◆ **Focuses on the supply and demand in various market segments of specialty synthetic rubber, such as silicone rubber , halogenated synthetic rubber, rare earth rubber and so on.**
- ◆ **Highlights the operation and development of key manufacturers in specialty synthetic rubber industry in China.**

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## Abstract

Specialty synthetic rubber, a type of rubber with special features for special purposes, mainly includes halogenated synthetic rubber, silicone rubber, rare earth rubber, acrylic rubber, fluororubber, polyurethane rubber and polysulfide rubber. Specialty synthetic rubber is mainly applied in the fields of automobile, aerospace, oil drilling and electronics. In 2010, the total consumption volume of specialty synthetic rubber in China reached one million tons. With breakthrough and popularization of manufacturing techniques and expansion of applications, the market of specialty synthetic rubber is expected to maintain a growth rate over 20% in the future.

This Report not only gives an overview of the whole specialty synthetic rubber market but also analyzes the supply and demand as well as enterprise competition in various market segments. Take halogenated butyl rubber (HIIR) and high-temperature silicone rubber for example:

### 1. Halogenated Butyl Rubber

Halogenated butyl rubber (HIIR) is a modification of butyl rubber (IIR), in other words, IIR is the raw material of HIIR. In 2010, there are 11 sets of facilities producing IIR (including HIIR) worldwide, with a total capacity of 1.09 million tons. In China, there is only one set of production facilities owned by Yanshan Petrochemical for the production of IIR. That is to say, China totally relies on HIIR imports at the cost of at least RMB50,000 per ton. In November 2010, The brominated butyl rubber pilot scale experiment team established by Longshan Chemical and Zhejiang Qi Cheng made a breakthrough in the production technology of industrial brominated butyl rubber (BIIR), and laid the foundation for ending the total dependence of China on HIIR imports. HIIR is mainly used in areas such as tyre, pharmaceutical capsule and eco-friendly anti-corrosion lining. China's demand for HIIR is 170,000 tons in 2010, and is expected to reach 250,000 tons in 2012.

## Capacity and Product of Butyl Rubber Manufacturers, 2010

Company	Capacity	Main Product
ExxonMobil Chemical (USA)	29.5	CIIR
Japan Butyl Co. Ltd. (Japan)	14.5	IIR, CIIR, BIIR
ExxonMobil Chemical (UK)	11	IIR, CIIR, BIIR
Socabu (France)	7	IIR, CIIR, BIIR
LANXESS (Canada)	13.5	IIR, CIIR, BIIR
LANXESS (Belgium)	13	IIR, CIIR, BIIR
Nizhnekamskneftekhim (Russia)	10	IIR, CIIR
Togliattikauchuk (Russia)	6	IIR
Sinopec Beijing Yanshan Petrochemical Co., Ltd. (China)	4.5	IIR
Total	109	

High-temperature silicone rubber is the silicone rubber that molded under high temperature (130-170° C) with peroxide vulcanizing agent. In 2011, the capacity of high-temperature silicone rubber in China is expected to be 300,000 tons, and in accordance with an estimated operating rate of 85%, the total output could reach 255,000 tons. Leading manufacturers of high-temperature silicone rubber in China include Hongda New Material Co., Ltd., Dongjue Silicone Group Co., Ltd., and Xin'an Chemical Industrial Group Co., Ltd. Hongda New Material Co.,

Ltd., the largest manufacturer of high-temperature rubber in China, realized the industrialization of methyl phenyl dichlorosilane in October 2010, ending the foreign technology blockade and monopoly.

Key application fields of high-temperature rubber include electronic key, insulator for high-voltage power grid, cable and medical equipment. The demand for high-temperature silicone rubber in China was about 250,000 tons in 2010, and is expected to reach 300,000 tons in 2011.

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