

Future of Starches in China

<https://marketpublishers.com/r/FE510916016EN.html>

Date: November 2009

Pages: 241

Price: US\$ 22,345.00 (Single User License)

ID: FE510916016EN

Abstracts

China's output of starch, including native and modified starch, is the second largest in the world. Major varieties of native starch include corn starch, potato starch, cassava starch and wheat starch, while that of modified starch include corn modified starch, potato modified starch and cassava modified starch.

China's starch output has kept growing rapidly with CAGR of about 17.00% since 2001, which reached 17.10 million tonnes in 2008. It is predicted that China's starch output will increase stably to 25.47 million tonnes in 2020. What is the position of Chinese starch industry in the world? Why do Chinese starch industry develop so fast? Which products will witness promising prospect in the future?

China is the second largest native starch consumption country in the world, with total consumption value of USD6.10 billion in 2008, of which USD700.00 million was contributed by modified starch consumption. With various characteristics and functions, modified starch is widely applied in industries such as papermaking, food processing and textile in China.

As for price, China's starch price is mainly influenced by raw material price, supply & demand situation and technology innovation. How are such factors affecting China's starch industry? You will find answers in the report.

Raw material cost constitutes the major proportion in starch manufacturing cost. In China, production cost of cassava starch is lower than that of corn starch, with USD333.16/t and respectively. However, native cassava starch only accounts for 3.13% share in domestic native starch market. In the USD340.34/t for corn starch, the cost of corn was USD308.01/t, accounting for 90.56% of the total cost, what cause this situation?

In recent two years, Chinese starch supply has surpassed domestic demand. As for international trade, export of native starch is increasing, while import is decreasing. But the situation is different for modified starches. Which kinds of native starch and modified starch have sufficient supply and which kinds are in demand?

Starch production technology mainly includes dry method and wet method, and wet method is widely adopted in recent years. However, it causes serious pollution like large volume of waste water. Has any technology innovation achieved in recent years?

What's covered in this report

- An overview for current market of corn starch, cassava starch, potato starch and wheat starch, as well as starch derivatives in China, with focus on statistics of capacity, output, import & export, supply & demand, major manufactures, future trend, etc.
- Outlook for starch raw material supply & demand
- Balance in starch industry, from raw materials to end use markets/products
- Competitiveness of Chinese starch and fermentation products in domestic and export markets, and impact of raw material supply on starch industry
- Foreign investment in China's starch industry
- Future development trend of China's starch industry

What can you benefit from the report?

From this report, you can obtain the latest info on China's and the world's starch industry, thus obtaining business intelligence before involving in the competition and grasping commercial opportunities. Besides, you can also know your competitors and their activities in China. A clear picture for competitive landscape of China's starch industry is provided. With the in-depth analysis on drivers and barriers of starch development, you may find out where China's starch market will go next.

Contents

Executive summary

Methodology, source and definition

I INTRODUCTION TO NATIVE STARCH AND MODIFIED STARCH

I-1 Classification and introduction of/to native starch and modified starch

I-2 Introduction to starch in the world

I-3 Overview of China's starch industry

II GOVERNMENTAL POLICIES

II-1 Governmental policies on feedstock

II-2 Financial and tax policies

II-3 Environmental regulations

II-4 Industry standard

III NATIVE STARCH PRODUCTION IN CHINA

III-1 Characteristic of native starch production in China

III-2 Introduction to raw materials for native starch production

III-2.1 Corn

III-2.1.1 Overview of corn supply, consumption

III-2.1.2 Principal local market quotations and trade prices

III-2.1.3 Corn products

III-2.1.4 Mass balance of corn and corn products

III-2.2 Cassava

III-2.3 Potatoes

III-2.4 Others

III-2.4.1 Wheat

III-2.4.2 Sweet potato

III-3 Corn starch

III-3.1 Output and capacity development

III-3.2 Key players

III-3.3 Principal local quotations and trade prices

III-3.4 Manufacturing cost structure

III-3.5 Investment discussion

- III-4 Cassava starch
- III-5 Potato starch
- III-6 Wheat starch
- III-7 Other native starch
 - III-7.1 Sweet potato starch
- III-8 Forecast on production to next 5-10 years

IV STARCH DERIVATIVES IN CHINA

- IV-1 Modified starch in China
 - IV-1.1 Modified starch production
 - Production and capacity development
 - Producers of modified starch
 - Price change of modified starch
 - Technology brief and manufacturing cost structure
 - IV-1.2 Consumption of modified starch
 - IV-1.3 Forecast on modified starch to next 5~10 years
- IV-2 Ethanol
 - IV-2.1 Fuel ethanol
 - IV-2.2 Edible ethanol
- IV-3 Organic acids
 - IV-3.1 Citric acid
 - IV-3.2 Lactic acid
- IV-4 Amino acids (lysine, MSG, etc.)
 - IV-4.1 Lysine
 - IV-4.2 MSG (Monosodium Glutamate)
- IV-5 Vitamins
 - IV-5.1 Vitamin C
 - IV-5.2 Vitamin B
- IV-6 Starch sugar
 - IV-6.1 Glucose
 - IV-6.2 Malt syrup
 - IV-6.3 Maltodextrin
 - IV-6.4 HFCS
- IV-7 Sugar alcohols
 - IV-7.1 Sorbitol
 - IV-7.2 Mannitol
 - IV-7.3 Maltitol
- IV-8 Enzyme preparations

- IV-8.1 α -amylase
- IV-8.2 Gluco-amylase
- IV-8.3 Lipase
- IV-8.4 Pectinase
- IV-9 Anti-biotics

V NATIVE STARCH CONSUMPTION AND END-USE SEGMENTS

Summary

- V-1 Characteristic of native starch consumption in China
- V-2 Consumption structure of native starch in China
- V-3 Consumption in food processing
- V-4 Consumption in papermaking
- V-5 Consumption in beverages
- V-6 Consumption in other industries
- V-7 Forecast on demand to next 5~10 years

VI IMPORT AND EXPORT ANALYSIS OF CORN AND STARCH

- VI-1 Corn
 - VI-1.1 Historical situation
 - VI-1.2 Current situation
 - VI-1.3 Future trend
- VI-2 Starch
 - VI-2.1 Native starch
 - VI-2.1.1 Import analysis
 - VI-2.1.2 Export analysis
 - VI-2.2 Modified starch
 - VI-2.2.1 Import analysis
 - VI-2.2.2 Export analysis

VII MASS BALANCE OF NATIVE STARCH AND SUPPLY-DEMAND SITUATION

- VII-1 Mass balance of native starch in China
- VII-2 Analysis of supply-demand of starch in next 5~10 years
- VII-3 Analysis of supply-demand situation of corn in next 5~10 years

VIII COMPETITIVENESS OF CHINESE STARCH AND ITS DERIVATIVES (IN DOMESTIC AND OVERSEAS MARKETS)

VIII-1 Pricing and manufacturing cost

VIII-2 Raw materials

VIII-3 Technology innovation

VIII-3.1 Foreign technology situation in starch industry

VIII-3.2 Chinese technology innovation in starch industry

IX FOREIGN INVOLVEMENTS IN STARCH INDUSTRY OF CHINA

IX-1 Foreign involvements situation in Chinese starch industry

IX-2 Policy for foreign involvements

X COMMERCIAL OPPORTUNITIES AND CONCLUSION

X-1 Commercial opportunities

X-2 Conclusion

XI PROFILES OF KEY MANUFACTURERS

XI-1 Native starch manufacturers

XI-2 Modified starch manufacturers

List Of Tables

LIST OF TABLES

- Table I-3.1 Output of different kinds of starch in China, 2004-2008
- Table II-1.1 Key governmental policies on feedstock
- Table II-2.1 Temporary purchasing plans for corn, 2008-2009
- Table II-3.1 Major policies on environmental protection related to starch industry in China
- Table II-3.2 Environmental standards on starch products in China
- Table II-4.1 Industry standards for main starch products
- Table III-1.1 Comparison of different native starch properties
- Table III-1.2 Comparison of dry method & wet method
- Table III-2.1.1.1 Supply & demand situation of corn in China, 2004-2008, million tonnes
- Table III-2.1.1.2 Corn yield distribution in China, 2005-2008, million tonnes
- Table III-3.2.1 Basic information of key corn starch manufacturers in China, 2009
- Table III-3.2.2 Production situation of key corn starch manufacturers in China, 2006-2009
- Table III-3.2.3 Corn starch subsidiaries of Zhucheng Xingmao, 2008-2009
- Table III-3.2.4 Corn starch subsidiaries of Global Bio-chem, 2008-2009
- Table III-3.2.5 Corn starch subsidiaries of China Agri-Industries, 2008-2009
- Table III-3.2.6 Corn starch subsidiaries of China Sun, 2008-2009
- Table III-3.2.7 National standard for pharmaceutical grade corn starch (CP-1990)
- Table III-3.2.8 National standard for food grade corn starch (GB8885-2008)
- Table III-3.2.9 National standard for industrial grade corn starch (GB12309-90)
- Table III-3.4.1 Manufacturing cost structure of corn starch in Shandong, Oct. 2009
- Table III-3.5.1 Details of investment in 100,000t/a corn starch production, 2009
- Table III-4.1 Key cassava starch players in China, 2008
- Table III-4.2 Quotation & average price of cassava starch in China, 2008-2009
- Table III-4.3 Manufacturing cost structure of cassava starch in Guangxi, Oct. 2009
- Table III-5.1 Key potato starch players in China, 2008
- Table III-5.2 Quotation & average price of potato starch in China, 2008-2009
- Table III-5.3 Manufacturing cost structure of potato starch in West China, Oct. 2009
- Table III-6.1 Key players of wheat starch in China, 2008
- Table III-6.2 Quotation & average price of wheat starch in China, 2008-2009
- Table III-7.1.1 Key sweet potato starch players in China 2008
- Table III-7.1.2 Quotation & average price of sweet potato starch in China, 2008-2009
- Table III-8.1 Forecasted total output & demand of native starch in China, 2009-2020, million tonnes

- Table IV-1.1.1 Basic information of key modified starch manufacturers in China, 2009
- Table IV-1.1.2 Production situation of key modified starch manufacturers in China, 2008-2009
- Table IV-1.1.3 Modified starch subsidiaries of Ting Hsin International Group, 2008-2009
- Table IV-1.1.4 Modified starch subsidiaries of China Sun, 2008-2009
- Table IV-1.1.5 Cost structure of corn modified starch for food in Oct. 2009
- Table IV-2.1.1 Basic information of main fuel ethanol producers in China, 2009
- Table IV-2.1.2 Potential fuel ethanol producers in China, 2009
- Table IV-3.1.1 Key citric acid producers in China
- Table IV-3.2.1 Producers of lactic acid in China, 2009
- Table IV-3.2.2 Key items of lactic acid technology for producers in China, 2009
- Table IV-4.1.1 Key producers of lysine in China, 2009
- Table IV-4.2.1 Active MSG producers in China, 2009
- Table IV-5.1.1 Key VC producers in China, 2009
- Table IV-5.1.2 Quotation from major VC producers in July 2009
- Table IV-5.2.1 VB2 producers in China, 2009
- Table IV-5.2.2 VB1 producers in China, 2009
- Table IV-5.2.3 Major VB4 producers in China, 2009
- Table IV-6.1.1 Key glucose producers in China, 2008-2009
- Table IV-6.2.1 Key malt syrup producers in China, 2008-2009
- Table IV-6.3.1 Key maltodextrin producers in China, 2008-2009
- Table IV-6.4.1 Key HFCS producers in China, 2008-2009
- Table IV-7.1.1 Sorbitol producers in China, 2008-2009
- Table IV-7.1.2 Capacity of sorbitol producers by product form, 2009
- Table IV-7.1.3 Raw material of sorbitol production in China
- Table IV-7.1.4 Sorbitol consumption in China
- Table IV-7.2.1 Mannit producer in China, 2008-2009
- Table IV-7.3.1 Key maltitol producers in China, 2008-2009
- Table IV-8.1.1 Key producers of α -amylase in China, 2009
- Table IV-8.1.2 α -amylase preparations and related characteristics
- Table IV-8.1.3 Specification of thermal stable amylase preparation
- Table IV-8.1.4 Demand for α -amylase based on applications, '000 tonnes, 2007-2016
- Table IV-8.1.5 Situation of α -amylase end use segments
- Table IV-8.2.1 Key producers of gluco-amylase in China, 2009
- Table IV-8.2.2 Demand for Gluco-amylase based on applications in China, '000 tonnes, 2007-2016
- Table IV-8.2.3 Situation of gluco-amylase end use segments
- Table IV-8.3.1 Major Producers of lipase in China, 2009
- Table IV-8.3.2 Demand for lipase based on applications, 2008-2016, tonne

- Table IV-8.4.1 Key producers of pectinase in China, 2009
- Table IV-8.4.2 Demand for pectinase based on applications, 2007-2016, tonne
- Table IV-9.1 Production of Ceftazidime in China, 2002-2008, tonnes
- Table IV-9.2 Key producers of bulk antibiotics in China, 2008
- Table V-2.1 Native starch consumption proportion by volume, 2008
- Table VI-1.1.1 Corn export & import, 2004-2008
- Table VI-1.2.1 Corn export volume in Jan. –Aug., 2008-2009
- Table VI-1.2.2 Corn import volume in Jan. –Aug., 2008-2009
- Table VI-2.1.1.1 Import volume of native starch, 2004-2008
- Table VI-2.1.1.2 Import value of native starch, 2004-2008
- Table VI-2.1.1.3 Key wheat starch import origins in Jan.–Aug., 2008-2009
- Table VI-2.1.1.4 Key corn starch import origins in Jan.–Aug., 2008-2009
- Table VI-2.1.1.5 Key potato starch import origins in Jan.–Aug., 2008-2009
- Table VI-2.1.1.6 Key cassava starch import origins in Jan.–Aug., 2008-2009
- Table VI-2.1.1.7 Wheat starch import in Jan.–Aug., 2008-2009
- Table VI-2.1.1.8 Corn starch import in Jan.–Aug., 2008-2009
- Table VI-2.1.1.9 Potato starch import in Jan.–Aug., 2008-2009
- Table VI-2.1.1.10 Cassava starch import in Jan.–Aug., 2008-2009
- Table VI-2.1.2.1 Export volume of native starch, 2004-2008
- Table VI-2.1.2.2 Export value of native starch, 2004-2008
- Table VI-2.1.2.3 Key wheat starch export destinations in Jan. –Aug., 2008-2009
- Table VI-2.1.2.4 Key corn starch export destinations in Jan. –Aug., 2008-2009
- Table VI-2.1.2.5 Key potato starch export destinations in Jan. –Aug., 2008-2009
- Table VI-2.1.2.6 Key cassava starch export destinations in Jan. –Aug., 2008-2009
- Table VI-2.1.2.7 Wheat starch export in Jan. –Aug., 2008-2009
- Table VI-2.1.2.8 Corn starch export in Jan. –Aug., 2008-2009
- Table VI-2.1.2.9 Potato starch export in Jan. –Aug., 2008-2009
- Table VI-2.1.2.10 Cassava starch export in Jan. –Aug., 2008-2009
- Table VI-2.2.1.1 Modified starch import, 2004-2008
- Table VI-2.2.1.2 Key modified starch import origins, Jan.-Aug., 2008-2009
- Table VI-2.2.1.3 Modified starch import in Jan.-Aug., 2008-2009
- Table VI-2.2.2.1 Modified starch export, 2004-2008
- Table VI-2.2.2.2 Key modified starch export destinations in Jan.-Aug., 2008-2009
- Table VI-2.2.2.3 Modified starch export in Jan.-Aug., 2008-2009
- Table VII-1.1 Mass balance of native starch for native starch manufacturers with raw material processing capacity of 10,000 t/a
- Table VII-1.2 Mass balance of native starch in China, 2008
- Table VII-2.1 Supply-demand situation of native starch, 2009-2020, million tonnes
- Table VII-2.2 Supply-demand situation of modified starch, million tonnes, 2009-2020

Table VII-3.1 Corn supply-demand situation for starch production, 2009-2020, million tonnes

Table VIII-1.1 Average export & import price of starch, 2004-2008

Table VIII-1.2 Average wage of workers by region and company ownership, 2009

Table VIII-2.1 Raw material supply for native starch industry in China, 2004-2008

Table VIII-2.2 Ratio for raw material used in starch industry, 2004-2008

Table IX-1.1 Key foreign investments in native starch in China 2008

Table IX-1.2 Key foreign investments in modified starch in China 2008

Table IX-2.1 Relevant policies for foreign involvement

Table XI-1.1.1 Major products of Zhucheng Xingmao Corn Developing Co., Ltd.

Table XI-1.1.4.1 Major products of Shandong Yishui Dadi Corn Developing Co., Ltd.

Table XI-1.2.3.1 major products of Changchun Jincheng Corn Developing Co., Ltd.

Table XI-1.4.1 Major products of Shandong Xiwang Group Co., Ltd.

Table XI-1.6.1 Major products of Shandong Juneng Group Golden Corn Co., Ltd.

Table XI-1.6.2 Subsidy situation of Shandong Juneng Group Golden Corn Co., Ltd.

Table XI-2.1.1 Major products of Zhucheng Xingmao Corn Developing Co., Ltd.

List Of Figures

LIST OF FIGURES

- Figure I-1.1 Molecular formula of native starch
- Figure I-1.2 Molecular formula of modified starch
- Figure I-2.1 Starch output volume distribution in the world, 2008.
- Figure II-2.1 Subsidies for peasants planting grain crops, 2004-2008
- Figure II-2.2 Export taxation change for corn and native starches, 2008-2009
- Figure II-3.1 Evolution of governmental departments on environmental protection in China
- Figure II-3.2 Government investment in pollution treatment in China, 2004-2008
- Figure II-3.3 Main targets for environmental protection in China, 2005-2010
- Figure III-1.1 Output proportion of native starch in China 2008
- Figure III-2.1.1.1 Changes of corn planting area in China, 2004-2008
- Figure III-2.1.1.2 Geographical distribution of corn planting area in China
- Figure III-2.1.2.1 Monthly quotation of corn in Dalian Port, 2007-2009
- Figure III-2.1.3.1 Flow chart of corn starch and its by-products production
- Figure III-2.1.3.2 Output of by-products of corn starch production, 2008
- Figure III-2.1.3.3 Changes of output and market value of corn oil in China, 2004-2008
- Figure III-2.1.4.1 Mass flow of corn in its downstream industries, 2008
- Figure III-2.1.4.2 Consumption structure of corn in China by volume, 2006-2008
- Figure III-2.2.1 Planting area of cassava in China, 2001-2008
- Figure III-2.2.2 Geographical distribution of cassava planting area, 2008
- Figure III-2.2.3 Output of cassava in China, 2001-2008
- Figure III-2.2.4 Price change of cassava in China, 2001-2008
- Figure III-2.2.5 Cassava consumption structure in China, 2008
- Figure III-2.2.6 Import & export situation of cassava in China, 2004-2008
- Figure III-2.3.1 Planting area of potato in China, 2001-2008
- Figure III-2.3.2 Geographical distribution of potato planting in China, 2007
- Figure III-2.3.3 Output of potato in China, 2001-2008
- Figure III-2.3.4 Price change of potato in China, 2001-2008
- Figure III-2.3.5 Consumption structure of potato in China, 2008
- Figure III-2.3.6 Export situation of potato in China, 2004-2008
- Figure III-2.4.1.1 Planting area of wheat in China, 2001-2008.
- Figure III-2.4.1.2 Geographical distribution of wheat planting in China, 2008
- Figure III-2.4.1.3 Output of wheat in China, 2001-2008
- Figure III-2.4.1.4 Price change of wheat in China, 2001-2008
- Figure III-2.4.1.5 Consumption structure of wheat in China, 2008

- Figure III-2.4.1.6 Import & export situation of wheat in China, 2004-2008
- Figure III-2.4.2.1 Price change of sweet potato in China, 2001-2008.
- Figure III-2.4.2.2 Consumption structure of sweet potato in China, 2001-2008
- Figure III-3.1 Market situation of corn starch industry, 2004-2008
- Figure III-3.2.1 Capacity distribution of corn starch in China, 2009
- Figure III-3.2.2 Capacity distribution of corn starch in major provinces, 2009
- Figure III-4.1 Output of cassava starch in China, 2001-2008
- Figure III-4.2 Import volume of cassava starch in China, 2004-2008
- Figure III-4.3 Consumption volume of cassava starch in China, 2004-2008
- Figure III-4.4 Market value of cassava starch in China, 2004-2008
- Figure III-4.5 Price change of cassava starch in China, 2001-2008
- Figure III-5.1 Output of potato starch in China, 2001-2008
- Figure III-5.2 Price change of potato starch in China, 2001-2008
- Figure III-5.3 Consumption volume of potato starch, 2004-2008
- Figure III-5.4 Market value of domestic potato starch, 2004-2008
- Figure III-5.5 Import & export situation of potato starch in China, 2004-2008
- Figure III-6.1 Output of wheat starch in China, 2001-2008
- Figure III-6.2 Import & export situation of wheat starch in China, 2004-2008
- Figure III-6.3 Consumption volume of wheat starch in China, 2004-2008
- Figure III-6.4 Market value of wheat starch in China, 2004-2008
- Figure III-8.1 Forecasted total output & demand of corn starch in China, 2009-2020
- Figure III-8.2 Forecasted output & demand of potato starch in China, 2009-2020
- Figure III-8.3 Forecasted output & demand of cassava starch in China, 2009-2020
- Figure IV-1.1.1 Production situation of modified starch in China, 2004-2008
- Figure IV-1.1.2 Output proportion for major kinds of modified starch, 2008
- Figure IV-1.1.3 Capacity distribution of modified starch in China, 2009
- Figure IV-1.1.4 Capacity distribution of modified starch by province, 2009
- Figure IV-1.1.5 Capacity proportion of different modified starch manufacturers, 2009
- Figure IV-1.1.6 Flow chart of producing modified starch by wet method
- Figure IV-1.1.7 Flow chart of producing modified starch by dry method
- Figure IV-1.2.1 Consumption structure of modified starch by volume in China, 2008
- Figure IV-1.3.1 Projected output volume of modified starch in China, 2009-2020
- Figure IV-2.1.1 Fuel ethanol output in China, 2004-2009
- Figure IV-2.1.2 Fuel ethanol capacity structure, by raw materials, 2009
- Figure IV-2.1.3 Flowchart of fuel ethanol production technology in China
- Figure IV-2.1.4 Projected fuel ethanol market situation in China, 2010-2014
- Figure IV-2.2.1 Edible ethanol market in China, 2002-2008
- Figure IV-2.2.2 Edible ethanol output proportion by different feedstock, 2008
- Figure IV-2.2.3 Forecasted capacity and output of edible ethanol in China, 2009-2020

- Figure IV-3.1.1 Citric acid market in China, 2002-2008
- Figure IV-3.1.2 Projected citric acid market situation in China, 2009-2020
- Figure IV-3.2.1 Market situation of lactic acid in China, 2004-2008
- Figure IV-3.2.2 Consumption pattern of lactic acid in China, 2008
- Figure IV-3.2.3 Demand of lactic acid in the world and China, 2005-2010
- Figure IV-3.2.4 Projected lactic acid market situation in China, 2009-2020
- Figure IV-4.1.1 Market situation of Lysine in China, 2004-2008
- Figure IV-4.1.2 Average export/import price of lysine in China, 2004-2009
- Figure IV-4.1.3 Projected lysine market situation in China, 2009-2020
- Figure IV-4.2.1 MSG market development in China, 2004-2008
- Figure IV-4.2.2 MSG demand situation in China, 2004-2008
- Figure IV-4.2.3 Projected MSG market situation in China, 2009-2020
- Figure IV-5.1.1 VC production in China, 2004-2008
- Figure IV-5.1.2 Market share of VC producers in China by output, 2008
- Figure IV-5.1.3 VC consumption pattern in the global market, 2008
- Figure IV-5.1.4 VC consumption pattern in China, 2008
- Figure IV-5.1.5 Chemical synthesis route for VC production
- Figure IV-5.1.6 Projected VC market situation in China, 2009-2020
- Figure IV-5.2.1 Market situation of VB2 in China, 2006-2008
- Figure IV-5.2.2 Market situation of VB1 in China, 2006-2008
- Figure IV-6.1.1 Glucose market in China, 2002-2008
- Figure IV-6.1.2 Forecast on glucose market in China, 2009-2020
- Figure IV-6.2.1 Malt syrup market in China, 2002-2008
- Figure IV-6.2.2 Forecasted market value and output of malt syrup in China, 2009-2020
- Figure IV-6.3.1 Maltodextrin market in China, 2002-2008
- Figure IV-6.3.2 Forecasted market value and output of maltodextrin in China, 2009-2020
- Figure IV-6.4.1 HFCS market in China, 2002-2008
- Figure IV-6.4.2 Forecasted market value and output of HFCS in China, 2009-2020
- Figure IV-7.1.1 Sorbitol market in China, 2002-2008
- Figure IV-7.1.2 Distribution of sorbitol capacity, 2008
- Figure IV-7.1.3 Forecasted market value and output of sorbitol in China, 2009-2020
- Figure IV-7.2.1 Mannit market in China, 2002-2008
- Figure IV-7.2.2 Forecasted market value and output of mannitol in China, 2009-2020
- Figure IV-7.3.1 Market value & output of maltitol in China, 2002-2008
- Figure IV-7.3.2 Projected market value and output of maltitol in China, 2009-2020
- Figure IV-8.1.1 Market situation of α -amylase in China, 2002-2008
- Figure IV-8.1.2 Consumption pattern of α -amylase in China, 2008
- Figure IV-8.1.3 Projected α -amylase market situation in China, 2009-2020

- Figure IV-8.2.1 Market situation of gluco-amylase in China, 2002-2008
- Figure IV-8.2.2 Projected gluco-amylase market situation in China, 2009-2014
- Figure IV-8.3.1 Market situation of lipase in China, 2002-2008
- Figure IV-8.3.2 Consumption pattern of lipase in China, 2008
- Figure IV-8.3.3 Projected market situation of lipase in China, 2009-2020
- Figure IV-8.4.1 Market situation of pectinase in China, 2002-2008
- Figure IV-8.4.2 Projected market situation of pectinase in China, 2009-2020
- Figure V-1 Native starch consumption volume in China, 2004-2008
- Figure V-1.1 Per capita native starch consumption volume in China, 2004-2008
- Figure V-1.2 Per capita net income in China, 2004-2008
- Figure V-3.1 Market value of food processing industry in China, 2004-2008
- Figure V-4.1 Output and growth rate of paper in China, by output, 2004-2008
- Figure V-5.1 Output and growth rate of beverages in China, by output, 2004-2008
- Figure V-7.1 Projected consumption volume of native starch in China, 2009-2014
- Figure VIII-3.2.1 Resistant starch production process of Jilin Agriculture University
- Figure VIII-3.2.2 Starch sewage treatment procedures in China
- Figure VIII-3.2.3 Comprehensive utilization process of corn starch waste of Qinghuangdao Lihua
- Figure IX-1.1 Output share of different enterprises in native starch in China by value, 2008
- Figure IX-1.2 Output share of different enterprises in corn starch in China by value, 2008
- Figure IX-1.3 Output share of different enterprises in potato starch in China by value, 2008
- Figure IX-1.4 Output share of different enterprises in modified starch in China by value, 2008
- Figure IX-1.5 Output share of different enterprises in corn, potato and cassava modified starch production in China by value, 2008

COMPANIES MENTIONED

Zhucheng Xingmao Corn Developing Co., Ltd., Global Bio-chem Technology Group Co., Ltd., Ningxia Yipin Group Co., Ltd., Guangxi Beilou Yanhua Starch Co., Ltd., Chengde Baole Food Co., Ltd.

I would like to order

Product name: Future of Starches in China

Product link: <https://marketpublishers.com/r/FE510916016EN.html>

Price: US\$ 22,345.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/FE510916016EN.html>