

Production and Market of Paraformaldehyde in China The Fourteenth Edition May 2018

Researched & Prepared by:

Kcomber Inc.

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1 Introduction

This report is the 14th edition, based on the former one finished in May 2017 focusing on the situation of China's paraformaldehyde (PF) industry in 2017 and Q1 2018, as well as forecasting its future development trend. The report is formulated in April 2018 and aims to disclose the latest production and market information of China's PF industry. The data for 2017 and before are based on CCM's database and other various sources as mentioned in the section of methodology below.

2. Approach for this report

The report is based on data sourced by diverse methods, which are listed as follows:

- Desk research

Desk research includes access to published magazines, journals, government statistics, industry statistics, customs statistics, association seminars as well as information on the Internet. Much work has gone into the compilation and analysis of the information obtained. Where necessary, information has been checked and discussed internally related to market structure and performance characteristics as key producers, key end users, production levels, end user demand and so on.

- Field survey

CCM has conducted an extensive field survey using telephone interviews in order to survey the PF market in China.

The interviewees included the following groups:

- · Key producers
- · Key end users
- Key traders
- · Material suppliers
- Associations involved
- · Industry experts
- Network search

CCM employs a network to contact industry participants by using B2B websites and software.

- Data processing and presentation

The data collected and compiled was variously sourced from:

- · CCM's database
- Published articles from periodicals, magazines, journals and third party databases



- Statistics from governments and international institutes
- Telephone interviews with domestic producers, joint ventures, service suppliers and government agencies
- Third-party data providers
- · Customs statistics
- Comments from industrial experts
- · Professional databases
- Information from the Internet

The data has been combined and cross-checked to ensure that this report is as accurate and methodologically sound as possible. Throughout the process, a series of discussions were held within CCM to systematically analyze the data and draw appropriate conclusions.



3. Executive summary

China's paraformaldehyde (PF) industry has witnessed a fast development in the past few years.

Production

The domestic PF production is mainly distributed in Hebei, Shandong and Jiangsu provinces, relying on abundant supply of raw materials especially methanol and convenient transportation.

In 2017, there have been about XXX PF producers in China, with a total capacity of XXX t/a, with a year-on-year growth rate of XXX. The domestic PF capacity is estimated to keep increasing to XXX t/a at the end of 2018 along with the launch of newly-built production lines.

With the increasing PF capacity, China's PF output has increased substantially, with a CAGR of XXX from 2015 to 2017. And China's output of PF reached XXX tonnes in 2017, increasing by XXX over that of the previous year.

Import and export

China is still a net PF importer, though its PF export volume had increased rapidly since 2009.

After witnessing a continuous decline from 2005 to 2009, the import volume of PF in China had rebounded and kept increasing from 2010 to 2011, driven by the fast development of domestic downstream industries including coating, ink, adhesive, China's PF import volume increased from XXX tonnes in 2009 to XXX tonnes in 2010, up by XXX year on year, and then it increased to XXX tonnes in 2011, with a year-on-year growth rate of XXX. The PF import volume declined a little to XXX tonnes in 2012 because some end users consumed homemade PF instead of imported PF. In 2013, the PF import volume increased sharply to XXX tonnes because domestic resin producers had to import more PF to satisfy their resin production and the rapidly increasing demand for PF from the domestic glyphosate industry was also an important reason. In 2015, the PF import volume decreased to XXX tonnes. And in 2016, it up by XXX year on year. In 2017, the PF import volume decreased to XXX tonnes.

With low price and good product quality, China's PF has been more and more popular with overseas PF consumers in recent years. The export volume of Chinese PF hit a record high in 2014, reaching XXX tonnes. The fast growth of export volume was mainly attributed to these countries/regions, including Bangladesh, Taiwan Province, Brazil, Russia, South Korea, etc. The net import volume decreased to the historical low in 2015. In 2016, China's PF export volume decreased by XXX year on year. In 2017, the export volume of PF continued to decrease, down by XXX year on year.

Technology

In China, there are still two main technologies to produce PF, namely rake drying method and spray drying method. Although the rake drying method still lags behind the spray drying method both in quality and environmental friendliness, it is adopted by most Chinese PF producers due to its low investment amount. In 2017, XXX PF producers adopted rake drying method with a share of about XXX by capacity.

Price

Generally, the price fluctuation of PF in China is greatly influenced by raw materials, methanol or formaldehyde. In 2017, the average ex-works price of PF increased to XXX.

Consumption

In China, PF is mainly consumed in agrochemical, resin and pharmaceutical industries, etc. The agrochemical industry is the largest consumption field of PF, taking up XXX of the total domestic PF consumption in 2017. The PF consumption volume in agrochemicals, mainly including glyphosate, acetochlor and butachlor, was XXX tonnes in 2017, up by XXX year on year. Moreover, glyphosate technical (AEA pathway) is the largest end use segment, and the consumption of PF in glyphosate accounted for 94.99% of that in agrochemical industry and XXX of the national total in 2017. The consumption of PF in resin industry was up by XXX, accounting for XXX of the national total in 2017.

4. What's in this report?

Note: Key data/information in this sample page is hidden, while in the report it is not.

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2 Production situation of paraformaldehyde in China

2.1 Producers in China

There are XXX producers of PF have been focused on in this report. As of March 2018, CCM finds,

- XXX of them are active producers;
- XXX of them are idle producers;
- XXX of them are potential producers.

These XXX potential producers include those finished construction but have not put into production yet, those under construction and those have just published environment impact assessment of PF projects as of March 2018.

. . .

Table 2.1-2 Capacity and output of major PF producers in China, 2012-Q1 2018

No.	Producer	Capacity, t/a								Output, tonne						
		2012	2013	2014	2015	2016	2017	As of Q1 2018	2012	2013	2014	2015	2016	2017	Q1 2018	
1	Zhenjiang LCY	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	
2	Xinle Yongxing	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	
3	Hengshui Yinhe	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	
4	Nantong Jiangtian	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	
5																

Source: CCM

. . .

2.2 Production situation

2.2.1 Capacity and output

After years of rapid growth, China's PF capacity kept increasing from XXX t/a in 2002 to XXX t/a in 2011, but it decreased to XXX t/a in 2012 because of several small PF producers, which had weaker competitiveness under the circumstances of overcapacity and sluggish PF market in recent years, had stopped PF production. The PF capacity increased sharply in 2013 along with the launch of some new PF production lines and had a slight increase to XXX t/a in 2014 because of Jiangsu Sanmu's launch of its XXX t/a PF project.

Figure 2.2.1-1 Capacity and output of PF in China, 2006-2018E



Note: "E" means estimated.

Source: CCM

3 Import & export analysis of paraformaldehyde in China

3.1 Overall situation of import and export

With the development of domestic PF, the domestic PF witnesses high quality and low price in recent years; therefore, it is more and more popular with customers at home and abroad. From 2010 to 2014, the export volume of PF in China kept increasing, while its import volume kept at a low level.

In 2015, both export volume and export price of PF in China decreased, down by xxx and xxx respectively compared with those in 2014.

. . .

Table 3.1-2 China's imports and exports of PF, 1992-2017

		Import		Export					
Year	Import volume,	Import	Average price,	Export volume,	Export	Average price,			
	tonne	value, USD	USD/t	tonne	value, USD	USD/t			
1992	xxx	XXX	XXX	xxx	XXX	XXX			
1993	XXX	XXX	XXX	XXX	XXX	XXX			
1994	XXX	XXX	XXX	XXX	XXX	XXX			
2016	XXX	XXX	XXX	XXX	XXX	XXX			
2017	XXX	XXX	xxx	XXX	XXX	XXX			

Source: China Customs

. . .

- 4 End use segments of paraformaldehyde in China
- 4.1 Consumption pattern

. . .

Figure 4.1-1 Apparent consumption of PF and its growth rate in China, 2005-2017



Source: CCM

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Figure 4.1-2 Consumption pattern of PF in China by downstream industry, 2005–2017



Source: CCM

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- 5 Forecast on paraformaldehyde industry in China
- 5.2 Forecast on supply and demand of paraformaldehyde, 2018-2022

5.2.1 Demand forecast to 2022

In 2017, the domestic glyphosate industry contributes to about XXX of the domestic demand of PF. The future trend of PF demand in China will be similar with the development trend of the domestic production of glyphosate technical.

Demand for PF in China is expected to keep increasing from 2018 to 2022. It's predicted that demand for PF will be XXX tonnes in China in 2022, at a CAGR of XXX in 2018–2022.

Figure 5.2.1-1 Forecast on PF demand and its growth rate in China, 2018-2022



Source: CCM

. . .

If you want more information, please feel free to contact us.

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