CCM Data & Business Intelligence

Survey of Inorganic Fluoride in China

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1. Introduction

This report mainly studies the market dynamics of inorganic fluoride industry in China, which covers the production, price, imports & exports of main inorganic fluoride products. Besides, a future forecast on the development trend for these products will be analysed in this report. The main products for this study consist of anhydrous hydrogen fluoride, aluminum fluoride, cryolite and lithium hexafluorophosphate, etc.

The key points of this report are listed as below:

- Production of inorganic fluoride in China
- Price analysis of main inorganic fluoride products in China
- Analysis on imports and exports of main inorganic fluoride products in China
- Future forecast on development trend for inorganic fluoride in China

2. Approach for the report

The report is drafted by diverse methods as follows:

1. Desk research

The sources of desk research are various, including published magazines, journals, government statistics, industrial statistics, customs statistics, seminars as well as information from the internet. A lot of work has gone into the compilation and analysis of the obtained information. When necessary, checks have been made with Chinese suppliers regarding production information.

2. Telephone interviews

CCM has carried out extensive telephone interviews to compile this report.
Interviewees cover the following:

- Key producers
- Key traders
- Material suppliers
- Associations
- Experts

Data processing and presentation

- The data collected and compiled are sourced from:
- CCM's database, ValoTracer
- Published articles from periodicals, magazines and journals, and third-party databases
- Statistics from governments and international institutes
- Telephone interviews with domestic producers, service suppliers, governments, etc.
- Third-party data providers
- Comments from industrial experts
- Professional databases from other sources
- Information from the internet

The data from various sources have been combined and cross-checked to make this report as precise and scientific as possible. Throughout the process, a series of internal discussions took place in order to analyse the data and draw conclusions from them.

3. Executive summary

Fluorine chemical industry has been one of the fastest developing and most promising chemical industries in China. China has become one of the largest countries of fluorine chemical production and consumption. At present, great progress has been made in the research and development of inorganic fluoride in China. Inorganic fluoride has been widely used in chemical, mechanical, optical instrument, electronic and medical fields and has become an important chemical product in the national economy.

As the largest producer of anhydrous hydrogen fluoride (AHF) in the world, China had a capacity of XXX t/a as of H1 2020, and achieved an output of XXX tonnes in 2019. In addition, China's electronic grade hydrogen fluoride has also developed rapidly.

China is also the largest producer of aluminum fluoride and cryolite in the world. In H1 2020, the domestic capacity of aluminum fluoride and cryolite were XXX t/a and XXX respectively. At present, cryolite industry has been affected by the supply-side reform in electrolytic aluminum industry, and the capacity and output have been decreasing.

Production of lithium hexafluorophosphate developed fast in 2015–2019, the capacity increased from XXX t/a in 2015 to XXX t/a in 2019, and the output jumped from XXX tonnes in 2015 to XXX tonnes in 2019. It is expected that the growth momentum will continue with promising new energy vehicle market.

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 and market situation of major products

2.2 Hydrogen fluoride

2.2.1 Production situation

In 2015–2019, the capacity of AHF increased from XXX to XXX, with only XXX added in 2019. The output increased from XXX tonnes in 2015 to XXX tonnes in 2019, at a CAGR of XXX. In H1 2020, the output was XXX tonnes and the capacity came to XXX t/a, as Qinghai Western Mining Tongxin Chemcial Co., Ltd. and Guizhou Wengfu Kailin Fluorosilicon New Materials Co., Ltd. added XXX t/a and XXX t/a respectively.

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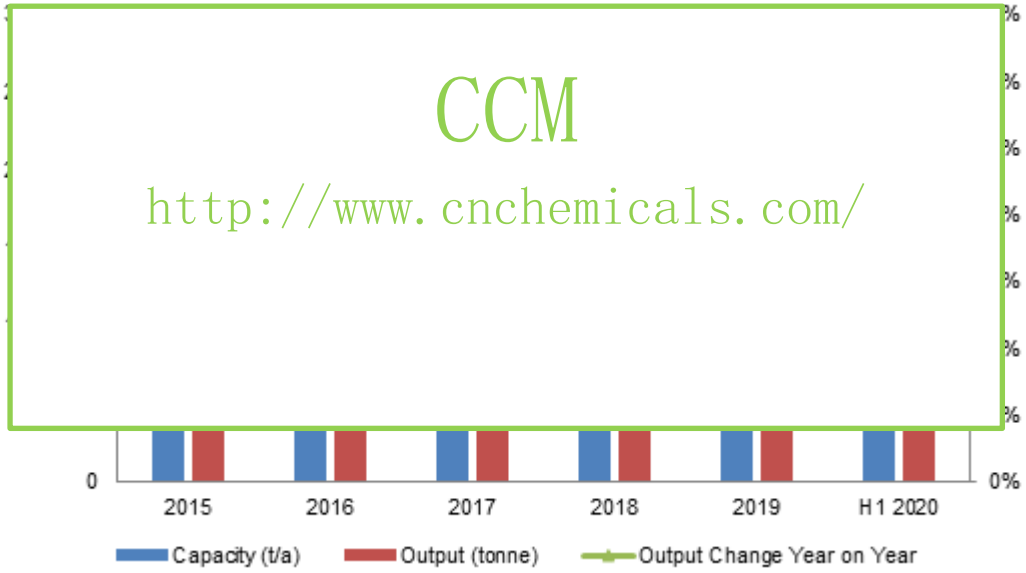
Figure 2.2.1-1 Capacity and output of AHF in China, 2015–H1 2020



Source: CCM

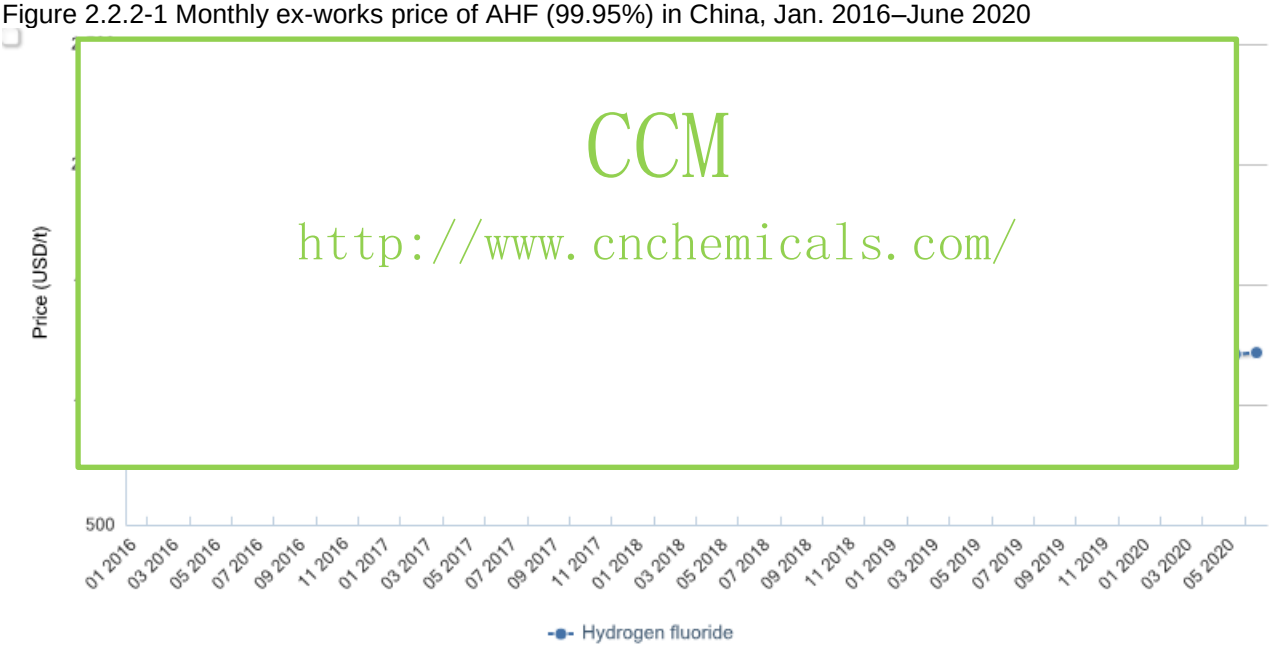
Table 2.2.1-1 Main AHF manufacturers in China, H1 2020

No.	Manufacturer	Capacity, t/a	Output, tonne	Operating rate
1	Dongyue Group Ltd.	XXX	XXX	XXX
2	Zhejiang Sanmei Chemical Co., Ltd.	XXX	XXX	XXX
3	Do-Fluoride Chemicals Co., Ltd.	XXX	XXX	XXX
…	…	XXX	XXX	XXX

Source: CCM

2.2.2 Price

Figure 2.2.2-1 Monthly ex-works price of AHF (99.95%) in China, Jan. 2016–June 2020



Source: CCM

2.2.3 Future trends

Table 2.2.3-1 List of projects expected to be built up and operate in the near future

No.	Enterprise	Expansion, t/a	Expected finish time
1	Jinchang Shuangyi Chemical Technology Co., Ltd.	XXX	XXX
…	…	XXX	XXX

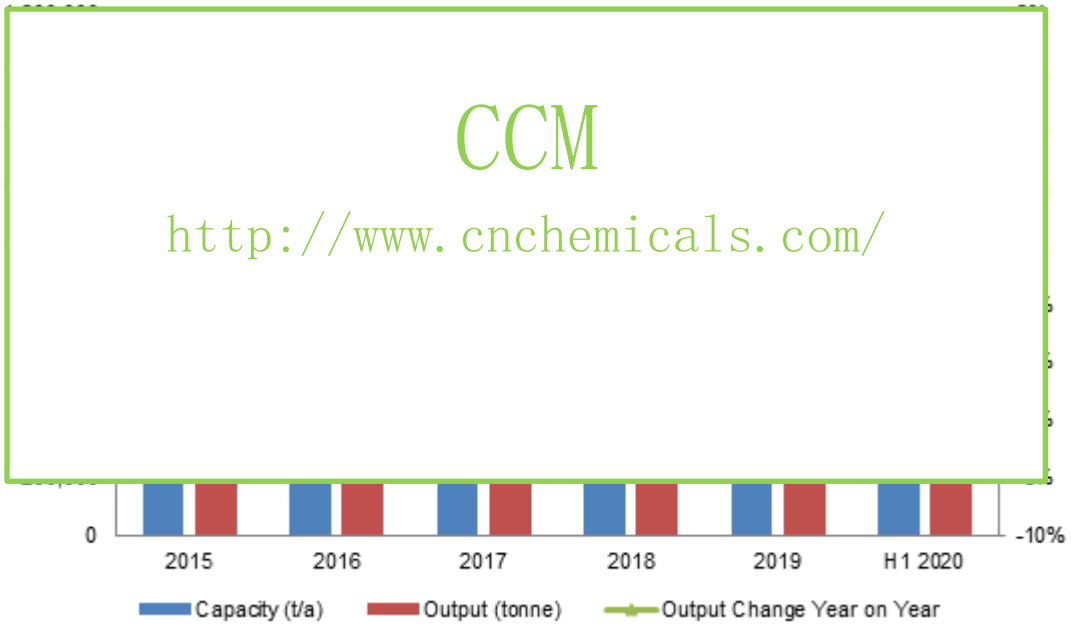
Source: CCM

2.3 Aluminum fluoride

2.3.1 Production situation

As the largest aluminum fluoride provider in the world, China had XXX t/a production capacity of aluminum fluoride in 2019, and the output was XXX tonnes. In H1 2020, the capacity and output were XXX t/a and XXX tonnes respectively.

Figure 2.3.1-1 Capacity and output of aluminum fluoride in China, 2015–H1 2020



Source: CCM

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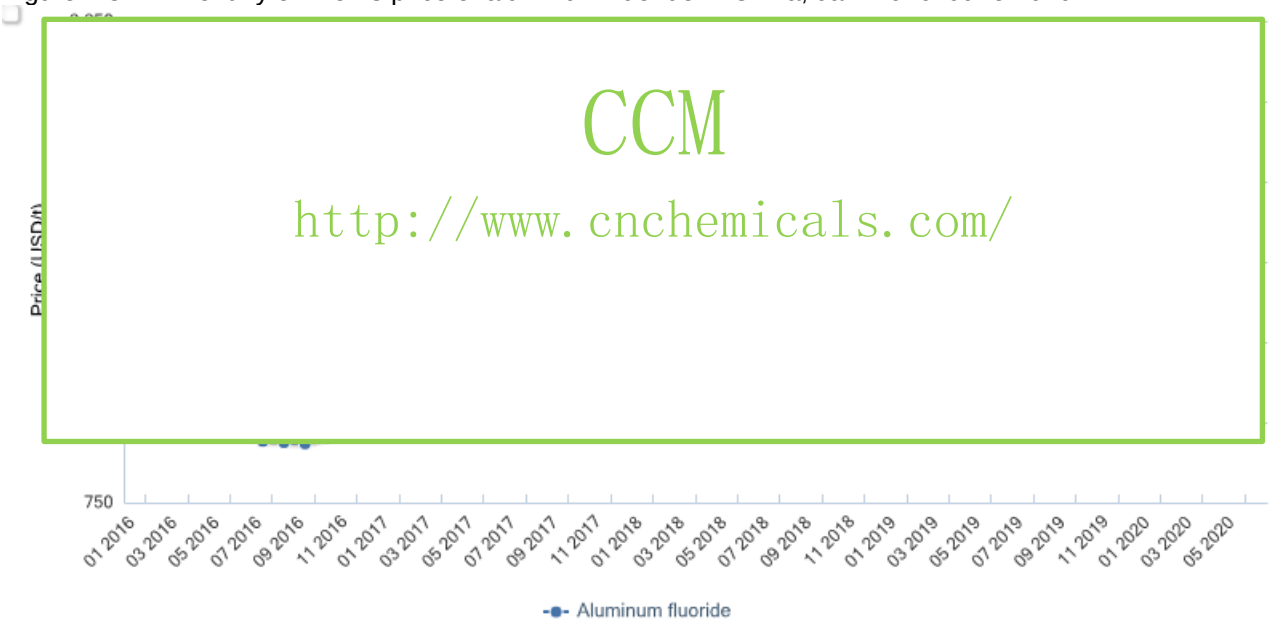
2.3.2 Price

Figure 2.3.2-1 Monthly ex-works price of aluminum fluoride in China, Jan. 2016–June 2020



Source: CCM

2.3.3 Export and import

Table 2.3.3-1 China's imports and exports of aluminum fluoride (anhydrous), 2016–H1 2020

Year	Import			Export		
	Volume, tonne	Value, USD	Price, USD/kg	Volume, tonne	Value, USD	Price, USD/kg
2016	XXX	XXX	XXX	XXX	XXX	XXX
2017	XXX	XXX	XXX	XXX	XXX	XXX
2018	XXX	XXX	XXX	XXX	XXX	XXX
2019	XXX	XXX	XXX	XXX	XXX	XXX
H1 2020	XXX	XXX	XXX	XXX	XXX	XXX

Source: China Customs & CCM

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2.3 Cryolite

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2.4 Lithium hexafluorophosphate

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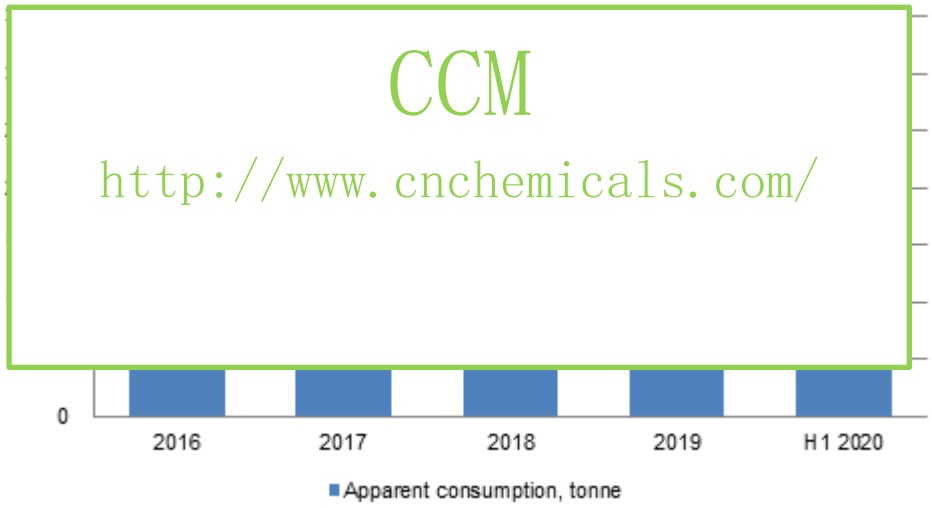
2.4.3 Consumption

Figure 2.4.3-1 Apparent consumption of lithium hexafluorophosphate in China, 2016–H1 2020



Note: Apparent consumption=Output+Import-Export, rounded to hundred
Source: CCM & China Customs

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