

China Aluminum Fluoride Market Research

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Contents

Executive summary.....	1
Methodology.....	2
1 General situation in the Chinese AlF_3 market	4
1.1 Brief introduction of AlF_3	4
1.2 Current situation	5
2 Producer with production situation	6
3 Ex-works price from Sept. 2017 to Sept. 2020.....	8
4 Import and export of anhydrous AlF_3.....	10
5 Development trends	11

LIST OF TABLES

Table 1.1-1 The chemical composition and physical properties standard of AlF_3 required by GB/T 4292-2007

Table 2-1 Capacity and output of dry-process AlF_3 manufacturers in China, 2019

Table 3-1 Current ex-works price of AlF_3 in China, July–Sept. 2020

Table 4-1 Exports of anhydrous AlF_3 in China, 2017–H1 2020

LIST OF FIGURES

Figure 3-1 Monthly ex-works price of dry-process AlF_3 in China, Sept. 2017–Sept. 2020

1. Introduction

China Aluminum Fluoride Market Research in 2020, finished by CCM, attaches the great importance of the following parts:

- Brief introduction of AlF_3 production process, including dry process and wet process
- Current situation of AlF_3 industry
- Producer with production situation, including capacity and output of dry-process AlF_3 manufacturers, producer information of fluorosilicic acid-process AlF_3
- Ex-works price of dry-process AlF_3 and wet-process AlF_3
- Import and export data and analysis of anhydrous AlF_3
- Development trends of AlF_3 products

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 a field survey in order to survey the market for aluminum fluoride 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 analyse the data and draw appropriate conclusions.

3. Executive summary

There are two processes for AlF_3 production—dry process and wet process. Specifically, dry-process AlF_3 can be subdivided into traditional dry-process AlF_3 and anhydrous AlF_3 , while wet-process AlF_3 can be subdivided into traditional hydrofluoric acid wet-process AlF_3 and fluorosilicic acid wet-process AlF_3 .

At present, dry process is the most popular and widely used by the AlF_3 producers in the market, because of its mature producing technique and good product quality. At the same time, fluorosilicic acid-process AlF_3 also enjoys certain competitiveness thanks to its environmentally friendliness, low production cost and good product quality.

Do-Fluoride Chemicals Co., Ltd. has been the largest manufacturer of dry-process AlF_3 in recent years. It has a capacity of XXX t/a AlF_3 , and produced XXX tonnes in 2019. Major dry-process AlF_3 producers are mainly located in Shandong Province and Henan Province.

Currently, there are five main manufacturers who produce fluorosilicic acid wet-process AlF_3 , including Yunnan Yuntianhua Fluorine Chemical Co., Ltd. and Dazhou Lizhi Environmental Protection Technology Co., Ltd., and they are all in active production.

The price of AlF_3 is jointly influenced by supply and demand of the product. In recent years, it has showed a downward trend with fluctuation because of oversupply and relatively weak demand in the market.

The export volume of anhydrous AlF_3 (HS code: 28261210) firstly XXX from 2017 to 2018, and then XXX from 2018 to 2019. XXX, XXX and XXX are the top three destinations for China's anhydrous AlF_3 from 2017 to H1 2020.

In the future, while dry process will remain to be the mainstream production method in the coming few years, fluorosilicic acid wet process will also show its advantages in resources recycling and low cost, especially as the production of fluorite—raw material of dry-process AlF_3 has been restricted in recent years.

4. What's in this report?

1 General situation in the Chinese AlF_3 market

1.1 Brief introduction of AlF_3

Aluminum fluoride (AlF_3) is a white crystal or powder with stable chemical properties. It is slightly soluble in cold water, soluble in hot water, insoluble in acid and alkali solutions, in most organic solvents, in hydrofluoric acid and in liquefied hydrogen fluoride. During aluminum electrolysis, it can be used to reduce the melting temperature of electrolyte and increase conductivity; it can also be used as a flux for non-ferrous metals, ceramic glaze and enamel glaze and as a component of glaze.

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1.2 Current situation

At present, dry process is the most widely used and most mature production method in China. Its advantages are advanced technology, low production cost, good product quality and low impurity content. This method is mainly used by fluoride salt manufacturers.

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2 Producer with production situation

- Dry-process AlF_3

In 2019, there were XXX dry-process AlF_3 manufacturers in China, which are mainly distributed in Shandong Province and Henan Province.

Table 2-1 Capacity and output of dry-process AlF_3 manufacturers in China, 2019

No.	Manufacturer	Capacity, t/a	Output, tonne
1	Do-Fluoride Chemicals Co., Ltd.	XXX	XXX
2	...	XXX	XXX
...	...	XXX	XXX
16	...	XXX	XXX
Total		XXX	XXX

Source: CCM

Fluorosilicic acid-process AlF_3

Since the traditional hydrofluoric acid wet-process AlF_3 has been withdrawn from the market to a large extent, here focuses on the production of fluorosilicic acid-process AlF_3 . At present, there are mainly XXX manufacturers that produce fluorosilicic acid wet-process AlF_3 in China, all of which are in active production.

3 Ex-works price from Sept. 2017 to Sept. 2020

During Sept. 2017–Sept. 2020, the ex-works price of dry-process AlF_3 in China... There are two main reasons for ...

Figure 3-1 Monthly ex-works price of dry-process AlF_3 in China, Sept. 2017–Sept. 2020



Source: CCM

Table 3-1 Current ex-works price of AlF_3 in China, July–Sept. 2020

Time	Fluorosilicic acid-process AlF_3 price		Dry-process AlF_3 price	
	USD/t	RMB/t	USD/t	RMB/t
July	XXX	XXX	XXX	XXX
August	XXX	XXX	XXX	XXX
September	XXX	XXX	XXX	XXX

Source: CCM

4 Import and export of anhydrous AlF_3

Table 4-1 Exports of anhydrous AlF_3 in China, 2017–H1 2020

Year	Volume, tonne	Value, USD	Price, USD/t
2017	XXX	XXX	XXX
2018	XXX	XXX	XXX
2019	XXX	XXX	XXX
H1 2020	XXX	XXX	XXX

Source: CCM

5 Development trends

At present, the mainstream production method of AlF_3 in China is still dry process...

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In recent years, fluorosilicic acid, a by-product of wet-process phosphoric acid and phosphate fertilizer, has been recovered mostly in the form of sodium fluosilicate in China...

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

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