

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

## Executive summary

In 2012, China was the largest holder of proven reserves of fluorite, with about xxxx million tonnes of proven reserves of fluorite, and the third largest technical reserves of fluorite in the world. China's fluorite reserves are concentrated in those regions—Hunan, Inner Mongolia, Zhejiang, Jiangxi and Fujian. From xxxx to xxxx, the output of fluorite in China has witnessed gradual increase with CAGR of xxxx%.

## 2.2 Production situation of fluorite

In xxxx, China is the largest fluorite producer worldwide and the output of fluorite in China is xxxx million tonnes, decreasing by xxxx% compared with that in xxxx, mainly due to the following reasons.

Firstly, the demand for fluorite from downstream industries in China decreases. For example, the output of fluohydrocarbon and fluor polymer in China in xxxx decreases compared with those in xxxx.

Table 2.2-1 Main producers of fluorite in China, 2012

No.	Producer	Abbreviation	Capacity, t/a
1	xxxx	xxxx	xxxx
2	xxxx	xxxx	xxxx
3	xxxx	xxxx	xxxx
4	xxxx	xxxx	xxxx
5	xxxx	xxxx	xxxx
6	xxxx	xxxx	xxxx
7	xxxx	xxxx	xxxx

Source: CCM

## 3.1 Hydrogen fluoride

Hydrogen fluoride, the basic fluorine chemical product, is mainly used to produce refrigerants, fluor resin, fluor rubber, intermediates and fine chemicals, etc. Besides, hydrogen fluoride takes up the biggest output among all kinds of inorganic fluoride products.

China is the biggest producer of AHF in the world and the total capacity of AHF is about xxxxt/a in xxxx.

There are more than xxxx AHF manufacturers in China, and more than xxxx producers' AHF capacity is over xxxx tonnes. The top three producers in China are xxxx, with capacity of xxxxt/a, xxxxt/a and xxxxt/a respectively in xxxx

Table 3.1-1 Main producers of AHF in China, xxxx

No.	Company	Abbreviation	Capacity, t/a
1	xxxx	xxxx	xxxx
2	xxxx	xxxx	xxxx
3	xxxx	xxxx	xxxx
4	xxxx	xxxx	xxxx
5	xxxx	xxxx	xxxx
6	xxxx	xxxx	xxxx
7	xxxx	xxxx	xxxx
8	xxxx	xxx	xxxx
9	xxxx	xxxx	xxxx
10	xxxx	xxxx	xxxx

Source: CCM

### 3.2 Aluminum fluoride and cryolite

Both aluminum fluoride and cryolite are the important materials used in electrolytic aluminum industry and more than xxxx% of aluminum fluoride are used in this area.

China is the largest aluminum fluoride and cryolite producer in the world. In xxxx, the capacity of aluminum fluoride and cryolite is about xxxxt/a and xxxxt/a respectively, and the output of aluminum fluoride and cryolite is about xxxx tonnes and xxxx tonnes respectively.

#### 4.2.1 Situation of HCFC-22

##### ► Production

Currently, HCFC-22 is the major fluor refrigerant in China, accounting for about xxxx% of the total fluor refrigerant consumption volume. Domestic capacity and output of HCFC-22 were about xxxxt/a and about xxxx tonnes in xxxx, increasing by xxxx% and xxxx% respectively compared with those in xxxx.

#### 5.1.2 Production and market situation of major products

##### 1) PTFE

##### -Production

The capacity of PTFE increased from xxxxt/a in xxxx to xxxxt/a in xxxx, with CAGR of xxxx%. And the output of PTFE is xxxx tonnes in xxxx, decreasing compared with that in xxxx. This is because the demand of PTFE from downstream, such as PTFE plastics (a major downstream product of PTFE), decreased in xxxx. Meanwhile, the export volume of PTFE in China in xxxx dropped due to a slow down economy in the world.

**Table 5.1.2-3 Main producers of PVDF in China, 2012**

No.	Producer	Abbreviation	Capacity, t/a	Output, tonne
1	xxxx	xxxx	xxxx	xxxx
2	xxxx	xxxx	xxxx	xxxx
3	xxxx	xxxx	xxxx	xxxx
4	xxxx	xxxx	xxxx	xxxx
5	xxxx	xxxx	xxxx	xxxx
<b>Total</b>			<b>xxxx</b>	<b>xxxx</b>

Source: CCM

### 6.3 Applications of fluor intermediates

China is one of the largest producers and exporters of pharmaceuticals in the world, with a total capacity over xxxxt/a in xxxx. From xxxx toxxxx, pharmaceutical industry's output value had grown consistently in China with an average annual growth rate of xxxx%. The industry has become one of the fastest-growing sectors in China. The domestic pharmaceuticals industry has maintained an increasing trend even after the financial crisis broke out in xxxx. Thanks to the fast development in pharmaceuticals industry, the demand for pharmaceutical intermediates burst out in the past few years. Moreover, from xxxx to xxxx, a great number of patent drugs will be out of date and generic drugs will witness fast development.

### 8.2 Fluohydrocarbon(HCFCs & HFCs)

With the large consumption of downstream industries, such as air conditioners, refrigerators and automobiles, the capacity and output of fluorinated refrigerants are predicted to maintain an uptrend in the next five years. This is due to the growing trend of economy, though the output of conditioners in China kept a slightly decreasing in xxxx compared with that in xxxx.

It is estimated that the total capacity of fluohydrocarbon will reach about xxxxt/a, and its output will reach about xxxx tonnes in xxxx. However, there will still be overcapacity in domestic market, and the operating rate will be about xxxx%~xxxx% in the coming years.

**Table 10.9-2 Capacity and output of major products of Arkema Changshu, 2012**

Major products	Capacity, t/a	Output, tonne
HCFC-22	xxxx	xxxx
HFC-134a	xxxx	xxxx
PVDF	xxxx	xxxx

Source: CCM