

Market Research of Aluminium Sulphate in China

Feb. 2018

The First Edition

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1. Introduction

Market Research of Aluminium Sulphate in China, finished in February 2018, is CCM's first edition report on China's aluminium sulphate industry. This intelligent report attaches importance to the following parts:

- Aluminium sulphate quality standards in China.
- Aluminium sulphate consumption and price in China.
- Production technology and cost analysis of aluminium sulphate production

2. Approach for this report

This research is a dedicated study of China's aluminium sulphate industry, which includes quality standards, consumption and end-uses, price, and production technologies of aluminium sulphate.

Region scope: China

Time scope: 2017

Methodology and sources

This report is based on data collected with diverse methods, which are listed as follows:

Desk research

This includes access to published magazines, journals, government, industrial statistics, association seminars as well as information from the Internet. A lot of work has gone into the compilation and analysis of the obtained information. Data collected and compiled are variously sourced from:

- CCM's database
- Published articles from periodicals, magazines, journals, and third party database.
- Statistics from governments and international institutes
- Comments from industrial experts on various platforms
- Information from the Internet

Telephone interview targets

- Key producers
- Key traders
- Industrial associations
- Industrial experts

Data compilation and crosscheck

Data obtained from various sources have been combined and cross-checked to ensure that this report is as accurate and methodologically sound as possible

3. Executive summary

Aluminium sulphate is an inorganic chemical, widely applied in papermaking, water purification and tanning & dyeing industries, etc. Currently, the most commonly adopted national standard for aluminium sulphate in China is HG/T 2225-2010.

In 2017, papermaking, industrial wastewater treatment, sanitary wastewater treatment, water purification for residential and industrial uses were the major industries of aluminium sulphate consumption in China. Most of the aluminium sulphate consumed in China was in solid form, accounted for XXX%.

In 2017, the price of aluminium sulphate in China decreased from Jan. to May and turned around from June to Dec.

There are three major production methods for aluminium sulphate in China, namely normal pressure reaction method, pressurised reaction method and ATH decomposing method, among which pressurised reaction method is the most commonly adopted production method.

The cost of producing aluminium sulphate can be broke down into equipment capital, running capital, staff pay, production cost, and waste treatment costs. In 2017, the annual average cost of operating a 10,000 t/a aluminium sulphate production line ranged from USDXXX to USDXXX varied by product grades.

4. What is in the report?

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

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1.2 Quality standards of aluminium sulphate

Table 1.2-1 National Chemical Industry Standard on Aluminium Sulphate for Industrial Use
HG/T 2225-2010

Item	Index				
	Grade I		Grade II		
	Solid	Liquid	Solid		Liquid
			First-rate	Qualified	
Aluminum oxide (Al ₂ O ₃) w/% ≥	XXX	XXX	XXX	XXX	XXX
Iron (Fe) w/% ≤	XXX	XXX	XXX	XXX	XXX
Water insoluble matter w/% ≤	XXX	XXX	XXX	XXX	XXX
pH (10g/L aqueous solution) ≥	XXX	XXX	XXX	XXX	XXX

Source: HG/T 2225-2010

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2.2 Consumption of aluminium sulphate

Table 2.2-1 Consumption of aluminium sulphate by product grade in different end-use industries, 2017

Industry	Consumption volume, tonne				
	Grade I (solid)	Grade I (liquid)	Grade II (solid, first-rate)	Grade II (solid, qualified)	Grade II (liquid)
Papermaking	XXX	XXX	XXX	XXX	XXX
Industrial wastewater treatment	XXX	XXX	XXX	XXX	XXX
Sanitary wastewater treatment	XXX	XXX	XXX	XXX	XXX
Water purification for residential and industrial uses	XXX	XXX	XXX	XXX	XXX
Tanning and dyeing	XXX	XXX	XXX	XXX	XXX
Timber preservation	XXX	XXX	XXX	XXX	XXX
Fire-proof materials	XXX	XXX	XXX	XXX	XXX
TiO ₂ finishing process	XXX	XXX	XXX	XXX	XXX
Speciality paper	XXX	XXX	XXX	XXX	XXX
Catalyst carrier	XXX	XXX	XXX	XXX	XXX
Others	XXX	XXX	XXX	XXX	XXX
Total	XXX	XXX	XXX	XXX	XXX

Source: CCM

...

2.3 Major end-users of aluminium sulphate by downstream industry

Table 2.3-1 Actual consumption of aluminium sulphate by major end-users in China, 2017


Company	Industry	Consumption volume, tonne
 http://www.cnchemicals.com/		

Source: CCM

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3 Ex-works price of aluminium sulphate in China by grade, 2017

Table 3-1 Monthly ex-works price of aluminium sulphate by product grade, 2017

Month	Price, USD/t				
	Grade I (solid)	Grade I (liquid)	Grade II (solid, first-rate)	Grade II (solid, qualified)	Grade II (liquid)
Jan.	 http://www.cnchemicals.com/				
Feb.					
March					
April					
May					
June					
July					
Aug.					
Sept.					
Oct.					
Nov.					
Dec.					

Source: CCM

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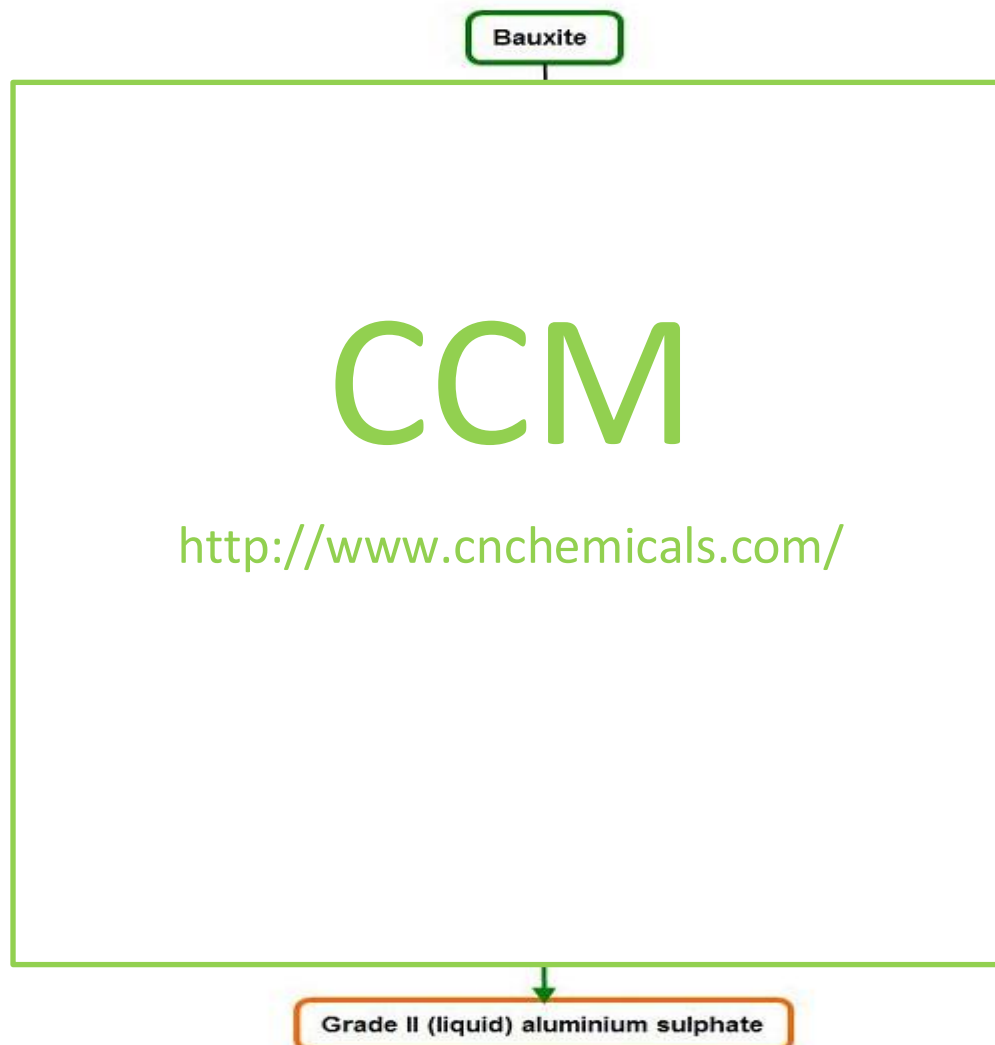
4 Production method and cost analysis of aluminium sulphate in China

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4.2 Production routes of aluminium sulphate adopting pressurised reaction method by product specification

4.2.1 Grade II (liquid) aluminium sulphate

Figure 4.2.1-1 Production route of Grade II (liquid) aluminium sulphate in China




Source: CCM

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4.3 Cost analysis of aluminium sulphate production

Table 4.3-3 Grade II (liquid) aluminium sulphate cost breakdown in China, 2017

Item	Unit price in 2017, USD/t	Unit consumption, t/t	Unit cost, USD
 http://www.cnchemicals.com/			

Note: 1. The cost breakdown in this chart is calculated on the basis of 100% aluminium sulphate.

2. The cost breakdown in this chart is calculated on the basis of a 10,000 t/a aluminium sulphate production line.


Source: CCM

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4.3.2 Cost analysis of aluminium sulphate production by product specification

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Table 4.3.2-1 Cost analysis of aluminium sulphate production by product specification, 2017, USD/a

Item	Grade I (solid)	Grade I (liquid)	Grade II (solid, first-rate)	Grade II (solid, qualified)	Grade II (liquid)
 http://www.cnchemicals.com/					

Note: The cost analysis in this chart is calculated on the basis of 100% aluminium sulphate.

Source: CCM

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

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