

POLY ALUMINIUM CHLORIDE(PAC)



Poly aluminum chloride is an inorganic polymer flocculant widely used in water treatment and other fields. It is commonly referred to as PAC. It usually appears as a yellow or yellow-brown powdery solid, and there are also liquid products.

QINGDAO CHEMLINK

PRODUCT ADVANTAGES

01

Solubility

Highly soluble in water, forming a colorless or light yellow transparent liquid.

02

Hydrolytic Property

Undergoes hydrolysis in water to generate substances such as aluminum hydroxide, while releasing hydrogen ions, which renders the solution acidic.

03

Stability

It exhibits certain stability, but its structure may change under conditions such as high temperature or high alkalinity, affecting the flocculation effect.



APPLICATION FIELDS

Water Treatment

It is a commonly used flocculant in water treatment, effectively removing suspended particles, colloidal substances, organic matter, and other impurities from water, clarifying the water. It is widely used in drinking water, industrial water, and wastewater treatment.

Paper Industry

It is used for paper sizing, improving the water resistance and strength of paper. It can also be used as a flocculant for paper mill wastewater treatment.

Dyeing and Printing Industry

It can be used for the treatment of dyeing and printing wastewater, removing dyes, auxiliaries, and other pollutants from the wastewater, reducing the color intensity and chemical oxygen demand (COD) of the wastewater.

Medical Field

In the pharmaceutical industry, it can be used as a pharmaceutical intermediate in the production of some drug carriers and pharmaceutical excipients.

1 INDUSTRIAL- GRADE POLYALUMINIUM CHLORIDE



QUALITY STANDARD		
ITEM	INDEX	
	liquid	solid
mass Aluminium Oxide Al_2O_3 Content/%	6 ~ 10	26 ~ 29
Basicity/%	20 ~ 98	
Water Insoluble Matter/% \leq	0.4	
PH Value 1% Aqueous Solution	3.5 ~ 5.0	
Fe Content/% \leq	1.5	
As Content/% \leq	0.0005	
Pb Content/% \leq	0.002	
Cd Content/% \leq	0.0005	
Hg Content/% \leq	0.00005	
Cr Content/% \leq	0.005	

The insoluble matter and heavy metal indicators for the products listed in the table are calculated based on an Al_2O_3 mass fraction of 10%. When the Al_2O_3 content is not equal to 10%, the actual content should be converted to a 10% Al_2O_3 product ratio, and the corresponding mass fraction should be calculated.

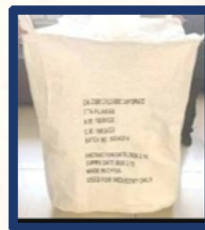
PACKAGING AND STORAGE

01 Solid: 25KG plastic woven bag (with PE inner lining bag inside PP bag)

02 Customized shipping marks/labels/other packaging as required

03 Transport capacity: 25 ~ 26 tons/20FCL

04 Storage conditions: dry, ventilated and moisture-proof



2 DRINKING WATER GRADE POLY ALUMINIUM CHLORIDE (YELLOW)

APPLICATION FIELDS

City drinking water treatment

Rural drinking water purification

Secondary water supply treatment in residential areas

**Drinking water treatment for public institutions such as
schools and hospitals**

Water treatment for the food and beverage industry



5.2 DRINKING WATER GRADE POLY ALUMINIUM CHLORIDE (YELLOW)

QUALITY STANDARD		
ITEM	INDEX	
	liquid	solid
mass Aluminium Oxide Al ₂ O ₃ Content/%	10	29 ~ 30
Basicity/%	45 ~ 90	
Water Insoluble Matter/%≤	0.1	
PH Value 1% Aqueous Solution	3.5 ~ 5.0	
Fe Content/%≤	0.2	
As Content/%≤	0.0001	

Pb Content/%≤	0.0005
Cd Content/%≤	0.0001
Hg Content/%≤	0.00001
Cr Content/%≤	0.0005

The insoluble matter and heavy metal indicators for the products listed in the table are calculated based on an Al₂O₃ mass fraction of 10%. When the Al₂O₃ content is not equal to 10%, the actual content should be converted to a 10% Al₂O₃ product ratio, and the corresponding mass fraction should be calculated.

PACKAGING AND STORAGE

- 01 Solid: 25KG plastic woven bag (with PE inner lining bag inside PP bag)
- 02 Customized shipping marks/labels/other packaging as required
- 03 Transport capacity: 22 tons/20FCL
- 04 Storage conditions: dry, ventilated and moisture-proof



PRECAUTIONS



It has a certain degree of corrosiveness. When in use, avoid direct contact with skin and eyes. If contact occurs, immediately rinse with plenty of water.



It should be stored in a dry and ventilated place, avoiding moisture, and kept separate from alkaline substances.



The storage period of liquid products is generally shorter, while that of solid products is relatively longer. Pay attention to the shelf life and storage conditions when using the product.

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聚合氯化铝



聚合氯化铝是一种广泛应用于水处理等领域的无机高分子絮凝剂。简称PAC，外观通常为黄色或黄褐色粉末状固体，也有液体产品。

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产品优势

01

溶解性

易溶于水，其水溶液为无色或淡黄色透明液体。

02

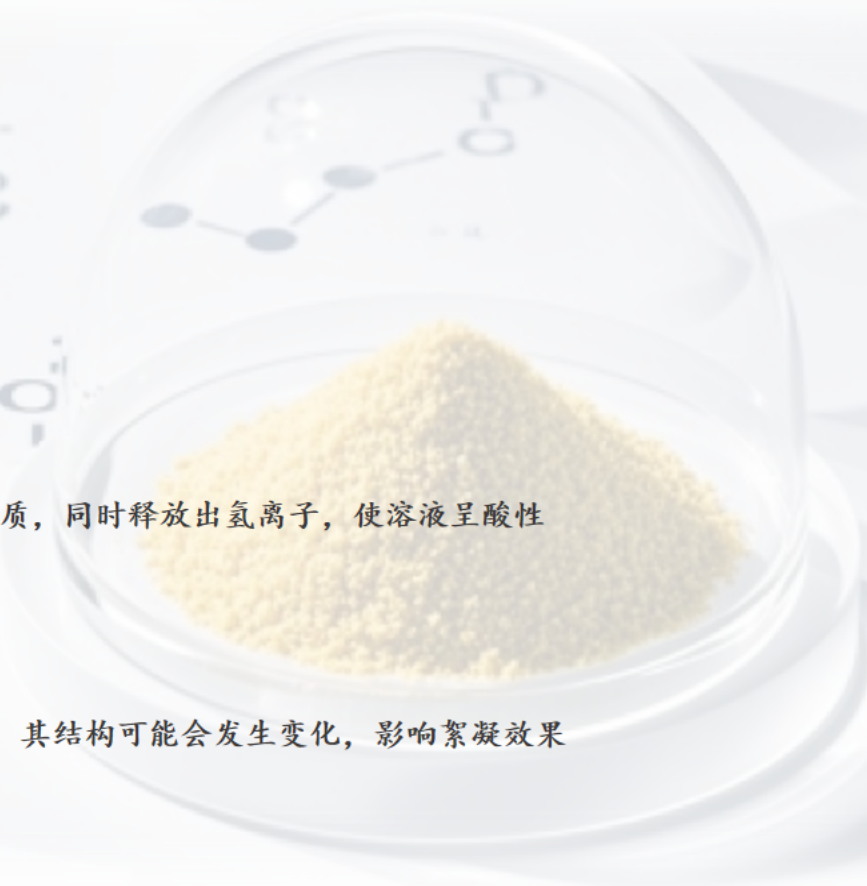
水解性

在水中会发生水解反应，生成氢氧化铝等物质，同时释放出氢离子，使溶液呈酸性

03

稳定性

有一定的稳定性，但在高温、高碱度等条件下，其结构可能会发生变化，影响絮凝效果



应用领域

水处理

是水处理中常用的絮凝剂，能有效去除水中的悬浮颗粒、胶体物质、有机物等杂质，使水变得澄清，广泛应用于饮用水、工业用水和污水处理等领域。

造纸工业

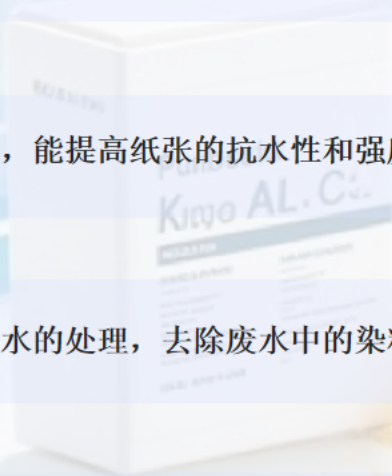
用于纸张施胶，能提高纸张的抗水性和强度，同时还可作为纸张废水处理的絮凝剂。

印染行业

可用于印染废水的处理，去除废水中的染料、助剂等污染物，降低废水的色度和化学需氧量（COD）。

医药领域

在医药工业中，可作为医药中间体，用于生产一些药物载体和药用辅料。



1 工业级聚合氯化铝



质量标准		
项目	指标	
	液体	固体
氧化铝 (Al_2O_3) 的质量分数/%	6~10	26~29
盐基度/%	20~98	
不溶物的质量分数/% \leq	0.4	
PH值 (10g/L水溶液)	3.5~5.0	
铁 (Fe) 的质量分数/% \leq	1.5	
砷 (As) 的质量分数/% \leq	0.0005	
铅 (Pb) 的质量分数/% \leq	0.002	
镉 (Cd) 的质量分数/% \leq	0.0005	
汞 (Hg) 的质量分数/% \leq	0.00005	
铬 (Cr) 的质量分数/% \leq	0.005	

表中所列的产品的不溶物、重金属指标均按 Al_2O_3 质量分数为10%计, 当 Al_2O_3 含量 \neq 10%时, 应将实际含量折算成 Al_2O_3 为10%产品比例, 计算得出相应的质量分数。

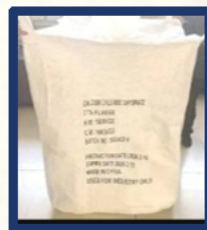
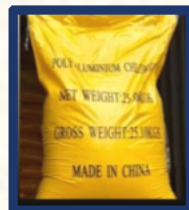
包装与存储

01 固体：25KG 塑料编织袋 (PP 袋内装 PE 内衬袋)

02 按需定制唛头/标签/其他包装

03 运输容量：25 ~ 26 吨/20 尺柜

04 储存条件：干燥、通风、防潮



2 饮水级聚合氯化铝（黄色）



应用领域

城市饮用水处理

农村饮用水净化

区二次供水处理

学校、医院等公共机构饮用水处理

食品饮料行业用水处理

5.2 饮水级聚合氯化铝（黄色）

质量标准		
项目	指标	
	液体	固体
氧化铝（ Al_2O_3 ）的质量分数/%	10	29~30
盐基度/%	45~90	
不溶物的质量分数/% \leq	0.1	
PH值（10g/L水溶液）	3.5~5.0	
铁（Fe）的质量分数/% \leq	0.2	
砷（As）的质量分数/% \leq	0.0001	

铅（Pb）的质量分数/% \leq	0.0005
镉（Cd）的质量分数/% \leq	0.0001
汞（Hg）的质量分数/% \leq	0.00001
铬（Cr）的质量分数/% \leq	0.0005

表中所列的产品的不溶物、重金属指标均按 Al_2O_3 质量分数为10%计，当 Al_2O_3 含量 \neq 10%时，应将实际含量折算成 Al_2O_3 为10%产品比例，计算得出相应的质量分数。

包装与存储

01 固体：25KG 塑料编织袋 (PP 袋内装 PE 内衬袋)

02 按需订制唛头/标签/其他包装

03 运输容量：22 吨/20 尺柜

04 储存条件：干燥、通风、防潮



注意事项



具有一定的腐蚀性，使用时应避免皮肤和眼睛直接接触，如接触到应立即用大量清水冲洗。



储存时应放在干燥、通风的地方，避免受潮，且要与碱类物质分开存放。



液体产品储存期一般较短，固体产品储存期相对较长，使用时应注意产品的保质期和储存条件。

联系我们

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期待与您携手合作, 共创美好未来, 欢迎来电来函咨询洽谈。