

POLYALUMINIUM CHLORIDE (PAC)

TECHNICAL PRODUCT BROCHURE

Efficient Coagulant
for Water Treatment



Turbidity
Removal



Excellent
Performance



Cleaner
Environment



KolinSC Product Data Sheet

Yellow Poly Aluminium Chloride (PAC)

Industrial Grade & Drinking Water Grade

Premium Water Treatment Coagulant

KolinSC Yellow PAC is a high-performance inorganic polymer coagulant widely used in drinking water purification, municipal wastewater treatment and industrial wastewater treatment. With excellent adsorption, bridging and flocculation performance, it helps remove suspended solids, turbidity, organic matter and certain heavy metal ions.

1. Product Identification

Item	Specification
Product Name	Poly Aluminium Chloride (PAC)
Abbreviation	PAC
Chemical Formula	$[Al_2(OH)_nCl_{6-n} \cdot xH_2O]_m$
Appearance	Yellow solid powder / yellow solution
Product Type	Inorganic polymer coagulant
Grade Available	Drinking Water Grade / Industrial Grade
Packaging	25 kg PP woven bag with inner PE liner

2. Product Characteristics

- Strong adsorption and bridging ability.
- Fast floc formation and rapid sedimentation.
- Wide application pH range.
- Excellent purification efficiency.
- Lower dosage compared with traditional inorganic coagulants.
- Suitable for automatic dosing systems and different water treatment processes.

3. Product Mechanism

PAC works through compression of electrical double layers, adsorption neutralization, adsorption bridging and precipitation processes. After dissolving in water, aluminum polymer species form hydroxide flocs which capture suspended particles and impurities, improving water clarity.

Technical Specifications

4. Drinking Water Grade PAC Standard

Parameter	Liquid	Solid
Al ₂ O ₃ content	≥10.0%	≥30.0%
Basicity	45.0-90.0%	45.0-90.0%
Density (20℃)	≥1.12 g/cm ³	-
Water insoluble matter	≤0.1%	≤0.1%
pH (1% solution)	3.5-5.0	3.5-5.0
Fe	≤0.2%	≤0.2%
As	≤0.0001%	≤0.0001%
Pb	≤0.0005%	≤0.0005%
Cd	≤0.0001%	≤0.0001%
Hg	≤0.00001%	≤0.00001%
Cr	≤0.0005%	≤0.0005%

5. Industrial Grade PAC Standard

Parameter	Liquid	Solid
Al ₂ O ₃ content	≥8.0%	≥29.0%
Basicity	30.0-95.0%	30.0-95.0%
Density (20℃)	≥1.12 g/cm ³	-
Water insoluble matter	≤0.4%	≤0.4%
pH (1% solution)	3.5-5.0	3.5-5.0
As	≤0.0005%	≤0.0005%
Pb	≤0.002%	≤0.002%
Cr	≤0.005%	≤0.005%

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Applications & Advantages

6. Main Applications

Drinking Water Treatment: Used for purification of drinking water, urban water supply and safe water treatment.

Municipal Wastewater: Effective for turbidity removal and suspended solids removal.

Industrial Wastewater: Applied in textile, printing & dyeing, leather, chemical, mining and other industries.

Industrial Circulating Water: Used for water clarification and process water treatment.

Sludge Treatment: Helps improve sedimentation and separation performance.

7. Product Advantages

Advantage	Description
High Efficiency	Strong coagulation and fast floc formation.
Stable Quality	Consistent chemical performance.
Wide Application	Suitable for different wastewater systems.
Cost Effective	Lower dosage and reduced treatment cost.

Packaging, Storage & Usage

8. Packaging Specification

Package Type	Specification
Standard Package	25 kg PP woven bag + PE inner liner
Export Package	Customized neutral packaging available
Bulk Package	Jumbo bag available upon request

9. Storage Conditions

- Store in dry, ventilated and cool areas.
- Protect product from moisture.
- Avoid mixing with other chemicals.
- Keep away from flammable, corrosive and toxic materials.

10. Usage Guidance

Before large-scale application, jar tests are recommended to determine the optimum dosage. Solid PAC should be dissolved into solution before dosing. Actual dosage depends on raw water quality.

KolinSC Chemical Supply Chain

KolinSC provides reliable water treatment chemical solutions with professional export service, quality control and long-term supply capability.

Customer Service

- COA and MSDS available.
- Sample testing support.
- Customized packaging support.
- Factory quality inspection support.
- Professional quotation and export service.

KolinSC

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