

POLYALUMINIUM CHLORIDE (PAC)

TECHNICAL PRODUCT BROCHURE

Efficient Coagulant
for Water Treatment



Clearer
Water



Reliable
Performance



Sustainable
Solutions

KolinSC Product Data Sheet

White Poly Aluminium Chloride (White PAC)

Premium Drinking Water Grade Coagulant

High Purity Water Treatment Chemical

KolinSC White PAC is a high purity poly aluminium chloride specially developed for drinking water purification and high-standard water treatment applications. Compared with conventional yellow PAC, white PAC features lower impurity content, lighter color, excellent solubility and stronger requirements for raw materials and production control.

1. Product Identification

Item	Specification
Product Name	White Poly Aluminium Chloride
Abbreviation	White PAC / PAC
Chemical Name	Polyaluminium Chloride
Chemical Formula	$[Al_2(OH)_nCl_{6-n} \cdot xH_2O]_m$
Appearance	White powder or white fine particles
Grade	Drinking Water Grade
CAS No.	1327-41-9
Standard	GB 15892 series for drinking water treatment
Packaging	25 kg PP woven bag with inner PE liner

2. Product Overview

White PAC is produced by advanced production processes using high purity aluminum raw materials. It is mainly used as a coagulant in drinking water treatment, where aluminum polymer species neutralize charges, adsorb suspended particles and form larger flocs for efficient separation.

3. Key Features

- High purity and low impurity content.
- White appearance with excellent visual quality.
- Low water-insoluble matter.
- Fast dissolution and efficient coagulation.
- Lower residual impurity risk for high-quality water treatment.
- Stable performance and easy dosing.

Technical Specifications

4. Typical White PAC Quality Specification

Parameter	Specification
Al ₂ O ₃ content	≥30%
Basicity	40-60%
pH value (1% solution)	3.5-5.0
Water insoluble matter	≤0.1%
Appearance	White powder

5. SGS Test Reference Example

According to the provided SGS testing report, the tested PAC powder sample was evaluated according to GB 15892-2009. The report includes Al₂O₃, basicity, arsenic, cadmium, mercury, lead, iron, hexavalent chromium, pH and insoluble matter tests.

Test Item	Result Example
Al ₂ O ₃	30.5%
Basicity	51.5%
As	<0.0002%
Cd	<0.00001%
Hg	<0.000001%
Pb	<0.0001%
Fe	0.0240%
Cr ₆₊	<0.0001%
pH (10g/L solution)	3.9
Insoluble matter	0.2%

Applications & Performance

6. Main Applications

Drinking Water Purification: Used in municipal drinking water plants, water supply purification and high-standard clarification systems.

High Quality Industrial Water: Suitable for industries requiring lower impurity water treatment chemicals.

Food Processing Water Treatment: Used where water quality and chemical purity are important.

Special Water Treatment: Applied in systems requiring excellent flocculation and low residue characteristics.

7. Coagulation Mechanism

After dissolving in water, White PAC forms polymeric aluminum hydroxide species. These active species remove suspended solids through adsorption, charge neutralization, bridging and precipitation, resulting in clearer treated water.

8. Advantages Compared With Traditional PAC

Feature	White PAC Advantage
Color	White appearance, suitable for high purity applications
Purity	Lower impurity content
Dissolution	Fast dissolution performance
Application	Suitable for drinking water and sensitive applications

Packaging, Storage & Service

9. Packaging Specification

Package Type	Specification
Standard Export Package	25 kg PP woven bag + PE inner liner
Customized Package	OEM and neutral export packaging available
Bulk Package	Jumbo bag available according to requirement

10. Storage Conditions

- Store in dry, cool and ventilated conditions.
- Protect from moisture and direct water contact.
- Avoid mixing with other chemical products.
- Keep packaging sealed before use.

11. KolinSC Quality Service

- Provide COA and MSDS.
- Support customer sample testing.
- Support customized specifications.
- Provide professional export documentation.
- Long-term stable supply cooperation.

KolinSC Chemical Supply Chain

KolinSC specializes in water treatment chemicals including PAC, PAM, potassium alum and ammonium alum. We focus on reliable quality control, professional international communication and long-term customer partnerships.

KolinSC

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Reliable Chemical Supply Chain Partner