



PAC POWDER 29G

Polyaluminium Chloride

CAS No.: 1327-41-9
Formula: $[Al_2(OH)_nCl_{6-n}]$

DESCRIPTION

Poly Aluminium Chloride (PAC) powder is a high-efficiency, water-soluble inorganic polymer used as a coagulant in water and wastewater treatment. It is supplied as a light yellow, free-flowing powder that dissolves readily in water. PAC powder is effective in removing suspended solids, turbidity, colour, and organic impurities while producing less sludge than traditional coagulants. It is non-toxic, stable, and performs well across a wide pH range, making it suitable for municipal drinking water treatment, industrial process water, and various wastewater applications.

KEY FEATURES

- High purity coagulant grade
- Low insoluble content
- Low heavy metal content
- Fully soluble powder
- Suitable for drinking water treatment

APPLICATIONS

- Drinking water treatment
- Municipal wastewater treatment
- Industrial wastewater treatment (textile, dyeing, paper & pulp, chemical industries)
- Swimming pools and recreational water clarification
- Paper & pulp industry process water treatment
- Food & beverage industry water purification
- General water clarification for removal of suspended solids, color, and turbidity

TYPICAL SPECIFICATIONS

Parameter	Specification
Aluminium Oxide (Al_2O_3)	$\geq 29.0\%$
Basicity	45.0 to 90.0%
pH (10 g/L solution)	3.5 to 5.0
Insolubles	$\leq 0.1\%$
Fe	$\leq 0.2\%$
Pb	$\leq 0.001\%$
Cd	$\leq 0.0002\%$
Hg	$\leq 0.00001\%$
Cr	$\leq 0.0015\%$
As	$\leq 0.0002\%$
Solubility	Completely soluble
Toxicity	Non toxic
Density (20°C)	Liquid $\geq 1.12 \text{ g/cm}^3$



**LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.**

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This document is subject to revision without notice as new data becomes available.

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PACKAGING

- 25 kg bags

USAGE

- Dissolve to make a 10–20% solution before use
- Typical dosage: 10–50 ppm, depending on water quality
- Determine optimum dosage through jar testing
- Add PAC to water, not water to PAC

STORAGE

- Store in a cool, dry, well-ventilated area
- Keep packaging sealed when not in use
- Protect from moisture to prevent caking
- Shelf life: 24 months when stored correctly

SAFETY & HANDLING

- Avoid contact with skin, eyes, and clothing; wear gloves and goggles
- Use in a well-ventilated area; avoid inhaling dust
- Do not mix concentrated PAC with strong alkalis or anionic polymers
- Prepare 10–20% solutions by adding PAC to water
- Follow standard industrial hygiene practices