PAC POWDER 29
Polyaluminium Chloride

CAS No.: 1327-41-9
Formula: [Al2(OH)nCl6–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)	≥29.0%
Basicity	45.0 to 90.0%
pH (10 g/L solution)	3.5 to 5.0
Insolubles	≤0.1%
Fe	≤0.2%
Pb	≤0.001%
Cd	≤0.0002%
Hg	≤0.00001%
Cr	≤0.0015%
As	≤0.0002%
Solubility	Completely soluble
Toxicity	Non toxic
Density (20°C)	Liquid ≥1.12 g/cm³

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

TECHNICAL SUPPORT
+61294103317
info@chemport.com.au

Level 9 Tower A
821 Pacific Highway
Chatswood NSW 2067
Australia
chemport.com.au

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