



Polyaluminium Chloride (PAC) – Powder

CAS Number: 1327-41-9

Chemical Formula: $[Al_2(OH)_nCl_{6-n}]_m$

Polyaluminium Chloride (PAC) Powder is a high-performance inorganic polymer coagulant widely used in water and wastewater treatment. Compared with traditional coagulants such as alum, PAC exhibits higher basicity, stronger charge neutralisation, and more efficient floc formation, allowing for lower dosage requirements and reduced sludge volumes.

KEY FEATURES

- Rapid floc formation and settling
- Effective over a wide pH range
- Reduced sludge generation compared to alum
- Lower chemical consumption and operating costs
- Excellent turbidity and colour removal performance

APPLICATIONS

- Municipal drinking water treatment
- Industrial and municipal wastewater treatment
- Paper and pulp industry (retention and drainage aid)
- Textile dye wastewater clarification
- Mining and industrial process water treatment

SPECIFICATIONS

Property	Typical Value	Test Method
Al ₂ O ₃ Content (%)	28 – 30	Industry Std
Basicity (%)	60 – 85	Titration
Insoluble Matter (%)	≤ 0.5	GB/T 22627
pH (1% solution)	3.5 – 5.0	ASTM E70
Appearance	Light yellow powder	Visual



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

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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 woven bags with PE liner
- 500 kg jumbo bags
- 1,000 kg bulk bags

STORAGE

Store in a cool, dry, well-ventilated place away from moisture. PAC Powder is hygroscopic; packaging must remain sealed when not in use. Under recommended storage conditions, the shelf life is 24 months.

SAFETY

Avoid contact with skin and eyes. Do not inhale dust. Use appropriate PPE including gloves, goggles, and dust mask. In case of contact, rinse immediately with clean water. For detailed information, refer to the Chemport Safety Data Sheet (SDS).