



HARDMAN CHEMICALS  
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### PRODUCT SPECIFICATION SHEET

**Product:** PAC PW (previously PAC30)

**Specification code:** PACPWA.9.1100

**Description:** polyaluminium chloride solution, roughly 50% basic

Synonyms: 50% basic aluminium chloride, aluminium hydroxychloride

Hardman Stock Code: PAC30n ("n" is a container code).

PROPERTY	SPECIFICATION	TYPICAL ANALYSIS
Total aluminium as aluminium oxide (Al <sub>2</sub> O <sub>3</sub> )	100 to 105 g/kg (10.0 to 10.5 % w/w)	102 g/kg
Chloride (Cl <sup>-</sup> )	102 to 113 g/kg (10.2 to 11.3 % w/w)	106 g/kg
Ratio by weight: Al <sub>2</sub> O <sub>3</sub> /Cl	0.93 to 0.99	0.96
Iron	100 mg/kg maximum	65 mg/kg
Specific gravity (SG) at 25°C (SG of water = 1.000 at 15°C)	1.175 to 1.195	1.185
pH (undiluted) at 25°C	2.5 to 2.8	2.6

Typical trace metal limits in PAC-PW			
Antimony	< 0.2 mg/kg	Manganese	< 2 mg/kg
Arsenic	< 0.2 mg/kg	Mercury	< 0.02 mg/kg
Beryllium	< 0.2 mg/kg	Nickel	< 2 mg/kg
Cadmium	< 0.1 mg/kg	Selenium	< 0.2 mg/kg
Chromium	< 2 mg/kg	Thallium	< 0.2 mg/kg
Copper	< 1 mg/kg	Zinc	1 mg/kg
Lead	< 0.2 mg/kg		

#### PACKAGING

200 litre (240kg) high density polyethylene Mauser type drums; 1000 litre (1200 kg) IBCs; bulk delivery

#### PROPERTIES

PAC PW is an aqueous solution of polyaluminium chloride, with roughly 50% basicity. Unlike sulphate containing polyaluminium chlorides, PAC PW is stable on standing for two or more years and is completely miscible with water.

#### APPLICATIONS:

Polyaluminium Chloride is a very effective and efficient coagulant for both potable and waste water treatment. It is also effective in the precipitation of phosphates.

#### HAZARD DATA:

Due mainly to its acidity, PAC-PW is classified as hazardous according to the criteria of Worksafe Australia. DG classification: Class 8 Corrosives, UN:1760; Corrosive liquid NOS.

Hardman will supply the latest Material Safety Data Sheet for this product on request.