

TECHNICAL SPECIFICATION SHEET

General Information:

Chemical Name	Polyaluminium Chloride Hydroxide
Common Name	Polyaluminium chloride, PAC
Chemical formula	$Al(OH)_aCl_{3-a}$ with $a > 1.05$
CAS #	1327-41-9
EINECS #	215-477-2
Appearance	Colourless to yellow

Specification

Critical Parameters:

Specific gravity	1.215 ± 0.025 @15°C
Alumina Content	10.0 ± 0.3% w/w Al_2O_3

Additional Parameters:

		Equivalent to:
Arsenic (As)	< 14 mg/kg of Al	(< 0.90 mg/L)
Cadmium (Cd)	< 2 mg/kg of Al	(< 0.13 mg/L)
Chromium (Cr)	< 30 mg/kg of Al	(< 1.93 mg/L)
Mercury (Hg)	< 4 mg/kg of Al	(< 0.26 mg/L)
Nickel (Ni)	< 20 mg/kg of Al	(< 1.29 mg/L)
Lead (Pb)	< 20 mg/kg of Al	(< 1.29 mg/L)
Antimony (Sb)	< 10 mg/kg of Al	(< 0.64 mg/L)
Selenium (Se)	< 10 mg/kg of Al	(< 0.64 mg/L)

Insoluble matter	< 10 g/kg of Al
Aluminium Content	52.94 ± 1.6 g/kg of Product
Solubility	Fully miscible in water
Relative Basicity	0.68 ± 0.32

This technical specification conforms with the requirements of I.S EN 883:2005 for Type 1 grade for Polyaluminium Chloride