POLY ALUMINIUM CHLORIDE $(Al_n(OH)_mCl_{3m-n})_x$



At GACL we offer premium quality products manufactured by state-of-the-art technologies. Our Poly Aluminum Chloride (PAC) plant with technical know-how from Contec s.r.l., Italy.

ADVANTAGES

- Ease of application
- Coagulates very effectively in low as well as high turbidity water.
- Rapid & better floc formation as compared to Alum.
- Less reduction of pH compared to Alum.
- Very less sludge generation.
- No requirement of other flocculation aids.
- Reduced Sedimentation Time.
- Effective in wide pH range.
- Lower residual aluminium and other heavy metals as compared to Alum.

PRODUCTION CAPACITY

- 41,250 MTPA Liquid (PAC 18) at Dahej Complex
- 20,000 MTPA Powder (PAC 30) at Dahej Complex
- 32,000 MTPA (PAC 18) at Coelho Complex
- 9,900 MTPA (PAC 30) at Coelho Complex

SPECIFICATIONS (As per IS 15573): 2018

Sr.No.	Characteristics	Unit	PAC 10		PAC 14	PAC 18	PAC 30	
			MB	HB			MB (SUL)	MB (N.SUL)
1	Appearance		Light Pale Yellow		Pale Yellow	Pale Yellow	Pale Yellow	Pale Yellow
			Liq.	Liq.	Liq.	Liq.	Powder	Powder
2	Aluminium as Al_2O_3	% by Mass	10.0 ± 0.5	10.5 ± 0.3	13.5 ± 0.5	17.5 ± 1.0	29.0 ± 1.0	29.0 ± 1.0
3	Basicity	% by Mass	40.0 ± 5.0	64 (Min)	-	45.0 ± 5.0	40.0 ± 5.0	40.0 ± 5.0
4	Chloride as Cl^-	% by Mass	11.5 ± 1.0	9.5 ± 1.0	20.5 ± 1.5	20.5 ± 1.5	35.5 ± 2.0	33.0 ± 2.0
5	Sulphate as $SO4^-$,(Max)	% by Mass	2.7	2.5	Nil	Nil	10	
6	Specific Gravity at 25^0 C		1.2 ± 0.04	1.2 ± 0.02	1.32 ± 0.02	1.37 ± 0.02	NA	NA
7	Bulk Density	Gm/ml	NA	NA	NA	NA	0.65 (Min)	0.65 (Min)
8	Insolubles,Max	% by Mass	0.5	0.5	-	-	1.5	1.5
9	pH of 5 % Solution	w/v	1.8 - 4.5	2.5 - 4.5	1.8 - 4.5	1.8 -4.5	1.8 - 4.5	2.5 - 4.5
10	Total Organic Content (TOC)	ppm	80	80	80	80	240	240

Caution : Acidic & Hygroscopic (Powder) in nature. **MB :** Medium Basicity **HB** : High Basicity

PACKING

- Powder (PAC30) : 25/50 kg PP woven bags with two inner LDPE liners
- Liquid (PAC10, PAC14 & PAC18) : 50 kg HM HDPE Carbuoys / Acid resistant rubber lined tankers / FRP tankers

EXCLUSIVE FEATURES

- Highly stable
- Low impurities
- Availability in both Liquid & Powder form
- Product is approved by CSIR-IITR, Lucknow

APPLICATIONS

- Municipal & Industrial Potable Water treatments
- Municipal & Industrial Waste Water treatments
- Sewage Water treatments
- Separation of slurry in Industrial processes
- Sizing in Paper & Pulp Industry
- Decolorisation & Decontamination of dyes in Textile Industry

CONTACT

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GACL™ NATION'S AMBITION, OUR CHEMISTRY

Gujarat Alkalies and Chemicals Limited
An ISO Certified Company (Promoted by Govt. of Gujarat)

Vadodara Complex (Regd. Office & Works) : P. O. Ranoli - 391 350, Dist. Vadodara (Gujarat) INDIA
Dahej Complex (Works) : P. O. Dahej-392 130, Tal. Vagra, Dist. Bharuch (Gujarat) INDIA

PAC

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