

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

PAC



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.

## 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	$10.0 \pm 0.5$	$10.5 \pm 0.3$	$13.5 \pm 0.5$	$17.5 \pm 1.0$	$29.0 \pm 1.0$	$29.0 \pm 1.0$
3	Basicity	% by Mass	$40.0 \pm 5.0$	64 (Min)	-	$45.0 \pm 5.0$	$40.0 \pm 5.0$	$40.0 \pm 5.0$
4	Chloride as $Cl^-$	% by Mass	$11.5 \pm 1.0$	$9.5 \pm 1.0$	$20.5 \pm 1.5$	$20.5 \pm 1.5$	$35.5 \pm 2.0$	$33.0 \pm 2.0$
5	Sulphate as $SO_4^{2-}$ (Max)	% by Mass	2.7	2.5	Nil	Nil	10	
6	Specific Gravity at $25^\circ C$		$1.2 \pm 0.04$	$1.2 \pm 0.02$	$1.32 \pm 0.02$	$1.37 \pm 0.02$	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 (PAC 10, PAC 14 & PAC 18) : 50 kg HM HDPE Carbuoys / Acid resistant rubber lined tankers

## EXCLUSIVE FEATURES

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

## CONTACT

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## 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

- 41250 MTPA Liquid (PAC 18) at Dahej Complex
- 20,000 MTPA Powder (PAC 30) at Dahej Complex
- 32,000 MTPA (PAC 18) at Coelho Complex

## 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



**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

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