

JAS CHEMICALS & PACKAGING.

Office: 720/A, YASHKAMAL BUILDING,
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About Us:

We believe in the maxim “CREATE TRUST. IT HAS NO SUBSTITUTES.” Based in Vadodara, we are a dynamic organization engaged in supplying a significant range of chemicals including of Water Treatment Chemicals, industrial chemicals and also Plastic Packaging Material at right prices and assured delivery.

Wide Array of products includes:

- Municipal Drinking Water & Waste Water Treatment Specialty Chemicals
- Industrial Process & Waste Treatment Specialty Blends
- Paper Processing Chemicals
- Cooling Tower & Boiler customized chemical treatment
- Plastic Packaging

❖ Municipal Drinking Water & Waste Water Treatment Specialty Chemicals

ALUMINIUM CHLOROHYDRATE SOLUTION (ACH) is a high quality coagulant typically used in both Municipal water/wastewater treatment. It can remove/reduce:

- Total Suspended Solids (TSS)
- Phosphate
- Chemical Oxygen Demand (COD) & Total Organic Carbon (TOC)

Comparison between ACH & PAC/Alum for Drinking Water Treatment:

Aluminium Chlorohydrate (ACH)	PAC / Alum
Low impact on pH due to high basicity (>82%)	Need additional pH adjustment Chemicals
Less Dosing due to high charged coagulants	High dosage for neutralizing the charged particles.
Contain 23.5 % Al ₂ O ₃ which make its a concentrated product hence require 40 - 60 % less dosing compared to PAC	Contain 7 – 18 % Al ₂ O ₃ which make its a low concentrated product hence require higher dosing then ACH
ACH is less acidic compared to PAC as its pH ranges from 4.0 – 4.4 hence very stable & non corrosive.	PAC is highly acidic having 1.5 – 2.5 pH which makes its corrosive hence troublesome in handling too.
ACH can remove TOC & works well at wide pH range	PAC is inefficient in reducing TOC & has effective pH limitation
ACH has lower impact on Al concentration in the treated water & helps in producing lower sludge then PAC	PAC has significant impact on Al concentration in treated water & produces higher sludge hence increase de-watering (increase OPEX)
ACH is approved by NSF – National Sanitation Foundation	PAC is not approved by HALAL which is essential in Islamic countries
ACH has higher pH then PAC which makes it suitable to blend with polymers (Flocculants) for bigger floc formation	PAC is ineffective against several flocculants hence require high dosing for equivalent coagulation & settling

ACH is a Green coagulant, non-hazardous, high pH and high concentration needing less transportation to the customers

ACH: PRODUCT SPECIFICATION

Appearance	Clear to Slightly Hazy Liquid
Specific gravity (at 25°C)	1.33 – 1.35
PH Value (30% w/w)	4.0 – 4.4
Aluminum (Al)	12.2 – 12.7%
Aluminum Oxide (Al ₂ O ₃)	23.0 – 24.0%
Al: Cl atomic ratio	1.90:1 – 2.10: 1
Basicity	75 – 90%



This specification is NSF certified (Maximum Use in Potable Water 250 mg/L)

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❖ Industrial Process & Waste Water Treatment Specialty Blends:

Aluminium Chlorohydrate

Widely preferred in Industries for Process/Manufacturing & waste water treatments. It has many applications as below:

- 1) As strong coagulant in Effluent Treatment.
- 2) As an Antiperspirant Actives in cosmetics / deodorants.
- 3) As a media in Sucralfate Manufacturing (Pharmaceutical Drug).
- 4) As a coating agent of Aluminum Oxide on Colloidal Silica.
- 5) As a coagulant for Process water clarification / Material recovery.

Poly Aluminium Chloride

PAC in all form, is extensively used as an industrial coagulant and flocculent in different industries. Different grades of PAC are available for different purposes. Categorization is done by varying ranges in Al₂O₃ concentration, degree of polymerization, and basicity. So, PAC products of low basicity (less than 40%) are typically used in paper manufacturing. PAC products of medium to high basicity (higher than 60%) are used as coagulants in wastewater treatment.

PAC can work more efficiently than standard coagulants due to its unique charge neutralization properties. Hence, it is extensively used and more recommended than the conventional products like ALUM, FERRIC CHLORIDE, FERROUS SULPHATE, etc.

Industry application: Drinking Water, Effluent, Paper & Pulp, Textile & Dyeing, Pharmaceutical etc.

❖ PAPER CHEMICALS:

We also provide range of quality paper chemicals which has numerous process benefits.

Most significant are:

- Increases the Burst factor (BF)
- Increases Ash value without affecting the dry strength properties
- Eliminates cracking problem in paper
- Eliminates sticking problem in rewinder
- Better inter fiber bonding and fines with the paper sheet

PAC is the most suitable agent for Paper & Pulp sizing, Anionic trash Scavenging:

- 1) Less quantities usage due to higher charge given to PAC against Alum
- 2) COBB adjustment is very easy
- 3) Easy to handle due to liquid
- 4) Little sludge formation compared to Alum
- 5) Alum is made from ORE which can contain many types of HAZ metals whereas PAC is safer

Sr.No.	DESCRIPTION	PAC	ALUMINUM SULFATE
1.	Consumption	Low Quantities	High quantities
2.	Price	Fare	Fare
3.	Reduction in PH	Moderate	High
4.	Acid fraction	Moderate	High
5.	Salinity of system	Low	High
6.	COD,BOD Reduction	High	Low
7.	Gypsum formation	Nil	Sludge formation
8.	CO ₂ development	Nil	Yes
9.	Odour	No Annoyance	No Annoyance
10.	Sludge formation of SO ₄	Nil	High

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❖ Cooling Tower & Boiler customized chemical treatment

We deal in cooling tower chemical through our brand POLARIL which is used to guard cooling towers/cooling plants/chiller from certain bacteria, fungi, algae, scales and corrosion.

Its singular features:

- SINGLE PRODUCT APPLICATION.
- ALKALINE.
- WEEKLY DOSAGE.

USES:

POLARIL is useful for cooling towers, cold storage applications, refrigeration plants, industrial water storage systems, inter coolers, sub coolers, thermal power, swimming pools, open sources of water like ponds for the removal of blue, blue-green algae, inhibition of corrosion and removing the deposited scales from the system.

INDUSTRY APPLICATIONS: Dairies, distillation plants, chemical plants, refineries, petrochemical plants, pharmaceutical companies, cool warehouses and cold storage, HVAC systems for cooling buildings & more.

BOILER CHEMICALS:

We have a product named POLARIL-BF to overcome the problems faced in boiler maintenance.

FEATURES:

- SINGLE PRODUCT TREATMENT.
- CORROSION CONTROL:
Polaril-BF is a powerful catalyzed oxygen scavenger, which removes oxygen instantly thereby preventing corrosion.
- DEPOIST CONTROL:
Polaril-BF contains sludge conditioner, which fluidizes precipitated salts and keeps sediments in suspension along with changing its nature to non-adherent and non-sticky mass until they can be removed by blow down.

❖ List of Industrial Chemicals :

The following is the list of industrial chemicals which we would be able to supply on regular basis.

Graphite Powder	Other Zinc Compounds
Zinc Chloride (technical and anhydrous grade)	Other Copper Compounds
Sulphamic Acid Powder	Other Nickel Compounds
Chrome Oxide Green	Cobalt Compounds
Copper sulphate	Chromium Compounds
Zinc Dust	Pigments
Nickle Chloride	Vat Dyes
Molybdenum Disulfide	Direct Dyes
3 – Aminocrotonitrile	Solubilised Vat Dyes
Calcium Chloride	Reactive Dyes
Manganese Chloride	
Manganese Sulphate	

For the detailed list of metal compounds, Pigments and Dyes, kindly contact, the same would be provided.

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❖ PLASTIC PACKAGING

"Cutting Price is easy, but quality requires Commitment".

Polymer as an industry is an ocean, and we exist in the the same as a name with commitment. Our in-house suppliers have over 3 decades of rich experience in the plastic packaging industry. That itself says a lot of the solid foundation on which our understanding of the present and future trends and requirements of the industry as a whole and of our clients in particular lies. We Cater to clients from variety of fields and manufacture tailor made products according to their need and requirements. Clients who do business with us stick with us over time, as we value relationships and maintaining quality more than earning.

Our strengths:

- We deal in PP/HM/LD plastic bags/rolls/liners.
- Width 3" to 40"
- Length 5" to 80"
- Microns 50 to 200
- Gauge 160 to 800
- Customer need based printing also done inhouse.
- Food grade packaging material
- Pharma grade packaging material
- Certificate of Analysis issued on request
- Bags/liners/rolls can be made with slit, gazette, etc.

We take customized order to suit the client's requirements.