

## Chlorine Allied Projects

For consume the Chlorine, we propose the following projects, these product is widely to be used in industrial field, customer can make choice according to their local market demands, we can do the project according to the customer request.

NO.	Product Name	Molecular formula	Product Application field	Main Raw Material
1	Bleaching powder concentrated	Ca(ClO) <sub>2</sub>	It's mainly used for bleaching the cotton fabrics, linen fabric, pulp and so on. Be widely used in drinking water, purifying the water of swimming pools, silkworm breeding and so on because of its function of disinfection and sterilization. Also used for manufacturing chemical toxicity and radioactive disinfectant.	Ca(OH) <sub>2</sub> , Cl <sub>2</sub>
2	Calcium chloride	CaCl <sub>2</sub>	It can be used as food additives, drying agent, refrigerant, snow-melting agent and so on, also as petroleum drilling and welling drilling working solution, well completion fluid, petroleum chemical dehydration fluid.	CaCO <sub>3</sub> , HCL
3	Poly Aluminium Chloride	PAC	It's normally to be used for water treatment, function as water purifying agent, flocculant, coagulant.	Al(OH) <sub>3</sub> / Bauxite/ Kaolin Clay, Calcium aluminate, HCL
4	Chlorinated paraffin	C <sub>15</sub> H <sub>26</sub> Cl <sub>6</sub>	It's used as flame retardant for various products; plasticizer for industries like plastic, rubber, fiber etc.; surface treating agent for fabric and packing material; modifying agent for bonding material and painting; antiwear agent for high-pressure lubrication and machining of metals; mildew preventive; water-proofing agent; additive for printing ink; and so on.	Liquid wax, Cl <sub>2</sub>

5	Strong chlorine	TCCA, SDIC/ DCCNa	TCCA has high bactericidal performance, is a new generation of bactericide, bleaching agent and shrink-resist agent with features of broad-spectrum, high efficiency and low toxicity. It's mainly used for disinfection and sterilization in drinking water, industrial circulating water, swimming pool, restaurant, hotel, public place, family, hospital, poultry eggs and prevention and treatment of fish disease, and so on.	cyanuric acid, or Urea, Cl <sub>2</sub>
6	Sodium Chlorite	NaClO <sub>2</sub>	Mainly used for cotton, linen, acrylic, polyester fiber bleaching (not suitable for wool, silk, rayon, nylon, etc.) also can be used as food, drinking water disinfection, paper bleaching and fish medicines manufacture.	NaClO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, H <sub>2</sub> O <sub>2</sub>
7	Barium chloride	BaCl <sub>2</sub>	Removing sulfate radical in the brine in chlor-alkali industry, also used for producing all kinds of barium salt, pigment including barium, insecticide and so on.	BaCO <sub>3</sub> / BaSO <sub>4</sub> , HCL
8	Trichlorosilane	SiHCl <sub>3</sub>	It's used for producing silane coupling agent and important intermediate for other organic silicon products, it's also the main raw material for manufacturing polycrystalline silicon.	Si, HCL
9	ADC ADC foaming agent	azo di-carbon amide	It's the foaming agent which has the features of high gas generation, superior performance and broad usage, it's widely used for foaming in slipper, shoe sole, shoe-pad, plastic wallpaper, ceiling, floor leather, artificial leather, heat insulation, sound insulation materials and so on.	NaOH、 Urea、 Cl <sub>2</sub>
10	Ferric trichloride	FeCl <sub>3</sub>	Ferric trichloride is mainly used as the treating agent for drinking water and waste water, oxidizing agent and mordant for dyeing industry, catalyst and oxidizing agent for organic synthesis.	Fe, HCL, Cl <sub>2</sub>
11	Chloroacetic acid	MCA	In the world, chloroacetic acid is mainly used for producing sodium carboxymethyl cellulose (CMC), PVC heat stabilizer thioglycolic acid, 2,4-chlorophenoxyacetic acid (2,4-D) etc. In China, chloroacetic acid is mainly used in pesticide, pesticide industry.	Acetic acid, Cl <sub>2</sub> , Acetic anhydride, H <sub>2</sub>

12	Chlorinated polyvinyl chloride	CPVC	CPVC, as a new type of chemical materials with high performance, is now already widely used in production industries like chemical engineering, building material, electrical appliance, fiber and so on.	PVC, NaOH, Cl <sub>2</sub>
13	Polyvinyl chloride	PVC	It's the second largest variety of plastic being second to polyethylene (PE).	C <sub>2</sub> H <sub>2</sub> , HCL
14	Sodium carboxymethyl cellulose	CMC	It can be used as sizing agent, emulsifying agent, stabilizing agent, bonding agent, suspending agent, thickening agent, lustering agent, crystal production preventing agent etc., is widely used in all kinds of industries like textile, printing and dyeing, petroleum, papermaking, leather, printing ink, ceramics, artificial furs, synthesis washing, putty powder, ceramic simulating coating, architectural sealant, cigarette, putty paste, food and medicine and so on.	Refined cotton /wood pulp/, MCA, NaOH
15	Epoxy chloroethane	C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub>	It's mainly used for producing fine chemicals like epoxy resin, synthetic glycerine, chlorohydrin rubber etc.	C <sub>3</sub> H <sub>6</sub> , NaOH, Cl <sub>2</sub>