



TECHNICAL DATA SHEET CATIONIC POLYACRYLAMIDE

APPLICATIONS

Cationic polyacrylamide flocculants are mainly used in industrial solid-liquid separation processes, including sedimentation, clarification, concentration and sludge dehydration. The main industries used are municipal sewage treatment, paper industry, food processing industry, petrochemical industry, metallurgical industry, mineral processing industry, printing and dyeing industry, sugar industry and various industrial waste water treatment. It is used for municipal sewage and meat, poultry and food processing wastewater treatment in the process of sludge sedimentation and sludge dewatering, by neutralizing the sludge with negative organic colloid with positive charged groups and polymer excellent bridging and condensation function, promote colloidal particles aggregation into large flocculants and its suspension separation. The effect is obvious and the dosage is small.

Cationic polyacrylamide can be used as paper dry strength agent, retention aid and filter aid in the paper industry, which can greatly improve the quality of paper, save costs and improve the production capacity of paper mills. It can be directly used as an electrostatic bridge between inorganic salt ions, fibers and other organic polymers, so as to improve the physical strength of paper, reduce the loss of fibers or fillers, speed up the filtration of water, and play the role of strengthening, retention and filtration. It can also be used in the treatment of white water and play an obvious flocculation role in the process of deinking.

Cationic polyacrylic acid fiber slurry (asbestos cement products) can improve the drainage performance of molded asbestos cement products, improve the strength of asbestos sheet; In the insulation board, the adhesion between the additive and the fiber can be improved.

Cationic polyacrylamide can be used as a clarifying agent for mine wastewater and coal washing wastewater.

Cationic polyacrylamide can be used to treat printing and dyeing wastewater, leather wastewater and oily wastewater, remove turbidity and decolorization, to meet the discharge standards.

Cationic polyacrylamide is helpful to the separation of gypsum in wet phosphoric acid process.

As a flocculant, cationic polyacrylamide is used for water treatment in waterworks with rivers as water sources.

Cationic polyacrylamide powder cationic polyacrylamide is often used in sewage treatment of organic wastewater: usually, sewage with suspended particles negatively charged sewage is flocculated and precipitated. Depending on the cationic acidic or alkaline medium in the

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flocculation unit, it is very effective to use electronegativity to clarify sewage rapidly. In addition to powder polyacrylamide, polyaluminum chloride and anionic polyacrylamide moulding products are also widely used in organic wastewater treatment.

Cationic polyacrylamide used in alcohol factory, brewery, monosodium glutamate factory, sugar factory, meat factory, beverage factory, textile printing and dyeing factory and a variety of wastewater treatment plants. It contains various organic solvents, inorganic and organic sulfides, hydrocarbons, chlorine, oils, mercury, and other environmentally hazardous components, and can be flocculated with polyacrylamide prior to discharge. In the process of textile printing and dyeing can also be used as mud treatment agent, selective water blocking agent, water thickening agent, softener, antistatic agent and general disinfectant.

Cationic polyacrylamide used for water purification, oil-water system demulsification, oil-containing wastewater treatment, wastewater recovery and sludge dewatering; Polyacrylamide can effectively reduce the friction of fluid, adding a small amount of polyacrylamide to water can reduce the friction by 50 to 80%.

Product Category

Product Type	Model Name	Total Solids (%)	Molecular Wt (Million)	Cationicity (%)	Application
Flocculant (Cationic)	Floc-C0510	≥89%	High	Low	Industrial Waste Water Treatment and Sludge Dewatering
	Floc-C1012		Very High	Low	
	Floc-C2012		Very High	Low/Medium	
	Floc-C3012		Very High	Medium	
	Floc-C4008		High	High	
	Floc-C5008		Medium	Very High	
	Floc-C6008		Medium	Strong	
	Floc-C7008		Medium	Very Strong	
	Floc-C8080		Medium	Very Strong	

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