

Introduction of Polyaluminum Sulfate for Wastewater Treatment

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Polyaluminum sulfate is white powdery granular, easily soluble in water, insoluble in alcohol, and the aqueous solution is acidic. The preparation concentration should not be too low, generally 5-10%. When used as a water treatment agent, the prepared aqueous solution cannot be stored for a long time to avoid hydrolysis and reduce the coagulation effect.

It is mainly used to purify drinking water, industrial water, and wastewater, especially for low temperature, low turbidity, and high PH value water. It can also remove the chroma and algae in the water. The suitable pH range of polyaluminum sulfate is 5-9, and it still has good flocculation and turbidity removal rate at low temperatures. It has an obvious effect on removing heavy metals in wastewater and treating fluorine-containing wastewater.

Uses of polyaluminum sulfate:

Polyaluminum sulfate is mainly used in food factories, papermaking, printing, tanning, pharmaceuticals, wood preservation, drinking water, industrial water, and [wastewater purification treatment](#). Especially for water with low temperature, low turbidity, and high PH value, it has an obvious effect. It can also remove the chroma, algae, high-grade paper whitening manufacturing and sizing agent in the water, post-coating treatment in the titanium dioxide manufacturing industry, and paper sizing agent. In addition, it is also a relatively good defluorinating agent and is also widely used as a grease clarifier, petroleum deodorizing and decolorizing agent, and concrete waterproofing agent.



Application range of polyaluminum sulfate products:

1. Purify domestic drinking water, and the purified water quality meets the drinking water standards stipulated by the state
2. It can be widely used in industrial water and urban sewage, and the water quality index after treatment can reach the first-level discharge standard:
3. Purify wastewater in papermaking, printing, and dyeing industries, with a low dosage, good decolorization effect, and the treated water can be reused.
4. [Purify and treat wastewater](#) and domestic sewage containing lead, chromium, cadmium, sulfide, etc., and the treated water can meet the discharge standard.

5. Purify and treat the red overflow water of flotation tailings, and the treated water can be used as industrial water.

6. Purification treatment of fluorine-containing raw water, oil-containing wastewater, oil field reinjection water, and oil-water separation in kerosene plants, etc., the purification effect is relatively significant.