



## FCA7100 Inorganic Polymeric Flocculant

FCA7100 is a high-efficiency inorganic polymeric flocculant engineered with polynuclear complex technology to form a three-dimensional network structure. It rapidly aggregates suspended solids, colloids, and partial dissolved pollutants in water through triple mechanisms—charge neutralization, adsorption bridging, and enmeshment/sweeping—generating dense, fast-settling flocs. Ideal for potable water treatment, industrial wastewater (oily, dyeing, papermaking, tanning), and complex effluents containing heavy metals, fluoride, or radioactive substances. Delivers crystal-clear effluent with residues compliant with 《GB 5749》 (Drinking Water Standards) and environmental discharge regulations, eliminating secondary pollution risks. Widely deployed in municipal water supply, power, metallurgy, precision casting, and environmental engineering for safe, stable, and cost-effective water purification.

### Product Features

- ❖ Triple-Action Flocculation: Polynuclear structure accelerates floc formation with rapid settling and high removal efficiency for turbidity and suspended solids.
- ❖ Broad-Spectrum Applicability: Effective across potable water, recirculating cooling water, oily/dyeing/papermaking wastewater, and complex streams containing Pb, F, or radionuclides.
- ❖ Safety & Regulatory Compliance: Treated water meets clarity standards; aluminum residuals controlled per national drinking water and discharge criteria.
- ❖ Operational Flexibility: Powder form easily dissolves into 5%–10% working solution; dosage optimized via jar test; compatible with manual or automated dosing systems.
- ❖ Robust Water Adaptability: Effective across raw water pH 5.0–9.0; maintains performance under low-temperature or low-turbidity conditions.
- ❖ Storage Stability & Cost Efficiency: Powder format ensures easy transport/storage; low unit treatment cost with significant economic benefits.

### Physicochemical Properties

The following represent typical properties of FCA7100 for reference only and are not guaranteed supply specifications. Refer to official technical documentation for certified data.

Item	Index
Appearance	Light yellow solid powder
Active Matter Content (as Al <sub>2</sub> O <sub>3</sub> ) (%)	>27.0
pH (1% aqueous solution)	3.5–5.0



\*For specialized applications or customized solutions, please contact FFM Inc. directly.

## Instructions for Use

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- ❖ Applications: Potable water treatment, industrial wastewater (oily, dyeing, papermaking, tanning), complex effluents (heavy metals, fluoride, radionuclides), recirculating cooling water systems.
- ❖ Procedure:
  - Prepare 5%–10% working solution with clean water; stir until fully dissolved;
  - Dosage: Determine via jar test. Typical reference: 10 – 50 mg/L for wastewater, 5 – 20 mg/L for recirculating systems;
  - Add solution with moderate mixing to promote flocculation; allow settling and separate supernatant.

## Packing and Storage

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25 kg/bag (with moisture-proof inner liner). Store sealed in a cool, dry, well-ventilated area. Strictly moisture-proof.

## Shelf Life

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12 months.

## Precautions

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Avoid dust inhalation. Wear mask and gloves during handling. Rinse skin with water if contacted.