Cationic Polyacrylamide (CPAM) (CPAM)

CAS No. 9003-05-8 (cationic copolymer) | HS Code 3906.90

Cationic polyacrylamide (CPAM) is a positively charged polymer flocculant used where solids carry a negative surface charge — above all in biological sludge dewatering. Dosed at 1–10 g per kg of dry solids, it neutralizes surface charges and builds rigid flocs that release water under belt press, centrifuge or screw press loads.

Correct ionic charge selection (typically 20–60%) is the decisive cost factor: municipal waste-activated sludge usually needs medium charges, while digested or mixed sludges need higher charges. We support grade selection with beaker-test protocols on customer sludge samples.

Technical Specifications

Parameter	Unit	Value
Molecular weight	million	6–13 (grade dependent)
Ionic charge (cationicity)	%	20–60
Solid content	%	≥ 90
Dissolution time (0.1% solution)	min	≤ 60
Water insolubles	%	≤ 0.5
Residual monomer	%	≤ 0.05
Appearance	—	White granular powder

Applications

- Belt press, centrifuge and screw-press dewatering of municipal biological sludge
- Conditioning of mixed primary/secondary sludges before thickening
- Charge neutralization of organic colloids in food, beverage and dyeing effluents
- Combined programs with PAC for oily or emulsified industrial wastewater

Packaging & Shipping

Kraft paper bag with PE inner liner — 25 kg | Jumbo bag — 750 kg

Storage & Shelf Life

Store dry and sealed; hygroscopic. Shelf life 24 months in original packaging.

Transport Classification

Not classified as a dangerous good under IMDG/IATA; ships as general cargo.

Safety Notes

Avoid dust inhalation; spilled polymer makes floors slippery. Use dust mask, gloves and eye protection. Do not overfeed into waterways. MSDS available on request.

Typical values for reference only. Final specifications are confirmed per batch Certificate of Analysis (COA) issued with each shipment. This document does not replace the MSDS — request it via the inquiry form.

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