Nonionic Polyacrylamide (NPAM) (NPAM)

CAS No. 9003-05-8 | HS Code 3906.90

Nonionic polyacrylamide (NPAM) is a charge-neutral, water-soluble polymer that flocculates purely by bridging adsorption instead of charge neutralization. This makes it the reliable choice in acidic effluents, high-salinity waters and mining/metal processing slurries where anionic or cationic grades lose efficiency.

NPAM is dosed at 0.5–10 ppm depending on solids load, and is often the most cost-effective polymer for coal washing tailings, sand washing and similar mineral slurries exported to overseas processing plants.

Technical Specifications

Parameter	Unit	Value
Molecular weight	million	5–15 (grade dependent)
Ionicity	%	≤ 3
Solid content	%	≥ 90
Dissolution time (0.1% solution)	min	≤ 60
Water insolubles	%	≤ 0.5
Hydrolysis degree	%	≤ 5
Appearance	—	White granular powder

Applications

- Coal washing and sand washing tailings sedimentation
- Acidic metal-processing effluent where anionic grades hydrolyze
- High-salinity or high-hardness water clarification
- Paper retention and drainage aid applications

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. 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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