

**A10**

Anionic Polyacrylamide - Technical Data Sheet

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## Product Overview

### Chemical Nature

A10 is an anionic polyacrylamide, typically a copolymer of acrylamide and sodium acrylate. It is supplied as a Medium molecular weight, free-flowing white granular powder.

### Key Features & Benefits

Effective flocculant and dispersant.  
Medium-High degree of charge (anionicity).  
Medium molecular weight for specific applications.  
Performs well in a pH range of 6-9.  
Easily soluble in water.

## Primary Applications

A10 is designed for use in a variety of industrial and environmental applications, including but not limited to:

- Water treatment (coagulant aid, flocculant).
- Industrial process water treatment.
- Mining and mineral processing.
- Papermaking (retention/drainage aid, though less common than cationic for this specific role).

## Typical Properties

Characteristic	Value
Appearance	white powder
Degree of Charge	Medium-High
Molecular Weight	Medium
Solid Content (%)	≥ 88% (Typical)
Bulk Density (kg/m <sup>3</sup> )	600 - 800
pH (0.5% @ 25°C)	6 - 9
<b>Viscosity (cps @ 25°C)</b>	
0.10% Solution	< 370 cps
0.25% Solution	< 1150 cps
0.50% Solution	< 4850 cps
Insoluble (w/w %)	< 0.5%
Mesh Size (20-80 mesh)	> 90%
Residual Acrylamide	≤ 1000 ppm (Typical)
CAS No.	9003-05-8 (Generic PAM)

## Application & Safety Information

### Solution Preparation & Use

Add slowly to water with good agitation; avoid lumps.  
Typical concentration: 0.1% to 0.5%. Stock up to 1.0%.  
Mix 30-60 minutes for full hydration.  
Use clean water; quality can affect performance.  
Use solutions within 24-48 hours for best results.

### Health and Safety

Can irritate eyes and skin. Rubber gloves, goggles, and protective clothing are recommended. Not acutely toxic by oral/dermal administration to lab animals, though eye irritation did result. Refer to MSDS.

PPE: Goggles, gloves, protective clothing.  
Eyes: Flush 15 min. Skin: Wash. Ingest: Rinse mouth. Inhale: Fresh air. Seek medical attention if needed.

## Handling, Storage & Packaging

### Handling

### Compatibility:

Recommended: Stainless steel, fiberglass, plastic, glass or epoxy-lined vessels.  
Avoid: Iron, copper, aluminum.

### Spillage:

Very slippery. Collect prior to flushing with water.  
Contain, sweep/vacuum dry, absorb wet. Dispose locally.

### Storage & Packaging

### Storage Conditions:

Store in unopened package in a dry atmosphere.  
Temperature no higher than 40°C.  
Shelf Life: 24 months as stored.

### Packaging Details:

Standard: 25 kg net moisture-resistant bags.  
Other sizes may be available upon request.

## Technical Service & Support

Our team can assist with selection & application. Contact us.