



A100

Anionic Polyacrylamide - Technical Data Sheet

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Product Overview

Chemical Nature

A100 is an anionic polyacrylamide, typically a copolymer of acrylamide and sodium acrylate. It is supplied as a High molecular weight, free-flowing white granular powder.

Key Features & Benefits

Effective flocculant and rheology modifier.
Medium-High degree of charge (anionicity).
High molecular weight with characteristically high solution viscosity.
Performs well in a pH range of 6-9.
Easily soluble in water.

Primary Applications

A100 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, especially where higher viscosity is beneficial.
Mining and mineral processing (e.g., tailings thickening).
Oil and gas (e.g., friction reduction, enhanced oil recovery).

Typical Properties

Characteristic	Value
Appearance	white powder
Degree of Charge	Medium-High
Molecular Weight	High
Solid Content (%)	≥ 88% (Typical)
Bulk Density (kg/m ³)	600 - 800
pH (0.5% @ 25°C)	6 - 9
Viscosity (cps @ 25°C)	
0.10% Solution	< 500 cps
0.25% Solution	< 1500 cps
0.50% Solution	< 6000 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.