C100

Cationic Polyacrylamide - Technical Data Sheet

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Product Overview

Chemical Nature

C100 is a copolymer of acrylamide and a quaternized cationic monomer, supplied as a High molecular weight, free-flowing white granular powder.

Key Features & Benefits

Effective flocculant for solid-liquid separation.
Medium-High cationic charge density.
High molecular weight for specific applications.
Performs well in a pH range of 6-8.
Easily soluble in water.

Primary Applications

C100 is designed for use in a variety of municipal and industrial applications, including but not limited to:

Sludge dewatering (belt press, centrifuge, screw press).
Water clarification & industrial processes.
Retention and drainage aid in paper making.

Typical Properties

Characteristic	Value
Appearance	White powder
Degree of Charge	Medium-High
Molecular Weight	High
Solid Content (%)	≥ 88% (Typical)
Bulk Density (kg/m³)	600 - 800
pH (0.5% @ 25°C)	6 - 8
Viscosity (cps @ 25°C	
0.10% Solution	< 250 cps
0.25% Solution	< 450 cps
0.50% Solution	< 650 cps
Insoluble (w/w %)	< 0.5% max (Please verify original PDF: ">0.5")
Mesh Size (20-80 mesh)	> 90% (Please verify original PDF: "<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.