

**C10**

Cationic Polyacrylamide - Technical Data Sheet

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## Product Overview

### Chemical Nature

C10 is a copolymer of acrylamide and a quaternized cationic monomer, supplied as a Medium molecular weight, free-flowing white granular powder.

### Key Features & Benefits

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

## Primary Applications

C10 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.

## Typical Properties

Characteristic	Value
Appearance	White powder
Degree of Charge	Medium-High
Molecular Weight	Medium
Solid Content (%)	≥ 88%
Bulk Density (kg/m <sup>3</sup> )	600 - 800
pH (0.5% @ 25°C)	6 - 8
<b>Viscosity (cps @ 25°C)</b>	
0.10% Solution	< 100 cps
0.25% Solution	< 200 cps
0.50% Solution	< 350 cps
Insoluble (%)	< 0.2%
Mesh Size (20-80)	> 90%
Residual Acrylamide	≤ 1000 ppm
CAS No.	9003-05-8

## 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

Refer to MSDS. Causes eye/skin irritation. Avoid dust.  
PPE: Goggles, gloves, protective clothing recommended.  
Eyes: Flush 15 min. Skin: Wash. Ingest: Rinse mouth. Inhale: Fresh air.  
Seek medical attention if needed.

## Handling, Storage & Packaging

### Handling

#### Compatibility:

Recommended: SS, fiberglass, plastic, epoxy.  
Avoid: Iron, copper, aluminum.

#### Spillage:

Very slippery. Collect before flushing.  
Contain, sweep/vacuum dry, absorb wet. Dispose locally.

### Storage & Packaging

#### Storage Conditions:

Store cool, dry, ventilated, < 40°C, unopened.  
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.