



# ATO FLOC 919

## ANIONIC ACRYLAMIDE COPOLYMER

### GENERAL DESCRIPTION

Form	powder
Colour	Off White
Average Mesh Size (retained on 100 mesh)	96
Bulk Density	0.8
Dissolution Time (minutes)	60
Stability of 0.5% solution (days)	10
Appearance of polymer solution	slight haze
Free Monomer Content Maximum	1000 ppm

### APPLICATION AND DOSAGE

Recommended Solution Conc.% ..... 0.1-0.5

The required dosage is dependent on the application and the substrate in the system. The technical service representative at ATOMES can assist in determining the best dosage and application for your requirements.

A positive displacement pump is recommended for metering the polymer solution. Polymers are shear sensitive and so the solution should not be mixed with high shear agitators for prolonged lengths of time.

Stainless steel, polyethylene, fiberglass, or lined steel vessels are acceptable for containing the stock solution of **ATO FLOC 919**. Galvanized metals, mild steel, copper, or brass should not be used in any part of the preparation or feed system.

### PREPARATION

Granular polymers are completely water-soluble but care must be taken to ensure complete solution without degrading performance. Complete wetting of each particle is the single most important factor in preparing solutions. Good wetting can be achieved by using an aspirator disperser that draws the granules into a stream of water using a vacuum created by the water pressure. Water pressure of 30 psig is required for these types of dispersers.



The wetted polymer should then be discharged into a vessel equipped with a high torque mixer capable of stirring the entire tank. Polymers are shear sensitive and so the mixer speed should be no higher than 400 rpm.

ATOMES offers a range of automated equipment designed to achieve optimum polymer efficacy.

The mixing time required to achieve complete solubility is about 45 minutes using water at room temperature. Colder water will require a longer mix time (45-70 minutes).

Typical Viscosity's of **ATO FLOC 919** Solutions:  
Brookfield (@ 25 C)

5.0 g/l	.....	1350 cps
2.5 g/l	.....	650 cps
1.0 g/l	.....	250 cps

## HANDLING AND STORAGE

Dry polymers are extremely hygroscopic and should be stored in a dry place and the polymer containers kept tightly sealed. **Do not spray water on spilled dry polymer.** For spills, sweep or vacuum the dry product. For spills of polymer solution: sprinkle salt, sawdust, sand, or other absorbent over the spill area.

## SAFETY INFORMATION

Review the Material Safety Data sheet for complete information on these products. Generally these products are non-toxic but dust will irritate eyes and mucous membranes so goggles and gloves should be worn during handling.

These products are not easily ignited but they will support an existing fire. Use foam, CO<sub>2</sub>, or dry chemical methods on fires involving these products.