

## USF C-361 CATION RESIN

### Description:

USF C-361 is a strong acid cation exchange resin that is manufactured from polystyrene and is nominally 10% cross-linked with divinylbenzene. The resin has a high exchange capacity, excellent stability at elevated temperatures, and superior resistance to oxidizing agents. This resin is used in applications requiring excellent physical stability.

### Chemical Properties

Functional Group	Sulfonic Acid
Ionic Form (as shipped)	Sodium
Moisture Content	38 to 43% (Na form)
Exchange Capacity	2.2 meq / ml minimum (Na form)
Kinetics	> 15 megohm (Siemens Kinetics Test)

### Physical Properties

Particle Screen Sizing	
+ 16 Mesh	5% maximum
- 50 Mesh	1% maximum
Effective Size (Approximate)	0.45 - 0.60 mm
Swelling	6% sodium to hydrogen form
Whole Beads (%)	90 minimum
Shipping Weight	54 lbs. / cu. ft.

### Operating Conditions

Operating pH Range	1 to 14
Service Flow Rate	1 to 3 gpm / cu.ft.
Regenerant Flow Rate	0.5 to 1.0 gpm / cu. ft.
Rinse Flow Rate	0.5 to 1.0 gpm / cu. ft.
Rinse Volume	25 to 50 gallons / cu. ft.
Maximum Operating Temperature	250°F