

USF C-381 CATION RESIN

Description:

USF C-381 is a strong acid cation exchange resin consisting of a sulfonated polymer matrix of styrene and divinylbenzene supplied in the sodium form. This resin is macroporous with an opaque bead appearance and is more resistant to chemical attack when treating aggressive waters.

Chemical Properties

Functional Group	Sulfonic Acid
Ionic Form (as shipped)	Sodium
Moisture Content	38 to 51% (Na form)
Exchange Capacity	1.7 meq / ml minimum (Na form)
Kinetics	> 15 megohm (Siemens Kinetics Test)

Physical Properties

Particle Screen Sizing	
+ 16 Mesh	5% maximum
- 50 Mesh	2% maximum
Effective Size (Approximate)	0.40 - 0.60 mm
Swelling	5% sodium to hydrogen form
Whole Beads (%)	95 minimum
Shipping Weight	50 lbs. / cu. ft.

Operating Conditions

Operating pH Range	1 to 14
Service Flow Rate	1 to 4 gpm / cu. ft.
Regenerant Flow Rate	0.5 to 2.0 gpm / cu. ft.
Rinse Flow Rate	0.5 to 2.0 gpm / cu. ft.
Rinse Volume	25 to 50 gallons / cu. ft.
Maximum Operating Temperature	250°F