

USF C-381C H CATION RESIN

Description:

USF C-381C H is a strong acid cation exchange resin that is manufactured from polystyrene and is cross-linked with divinylbenzene. This resin is a macroporous cation with an opaque bead appearance and is supplied in the hydrogen form. This type of resin is more resistant to chemical attack and has been processed by USFilter to meet the following specifications for low TOC and high kinetic requirements.

Chemical Properties

Ionic Form (as shipped)	Hydrogen
Moisture Content	49 to 56% (H form)
Exchange Capacity	1.7 meq / ml minimum (H form)
Kinetics	> 17 megohm (Siemens Kinetics Test)

Physical Properties

Particle Screen Sizing	
+ 16 Mesh	5% maximum
- 50 Mesh	1% maximum
Effective Size (Approximate)	0.47 - 0.63 mm
Swelling	5% sodium to hydrogen form
Whole Beads (%)	95 minimum
Shipping Weight	48 lbs. / cu. ft.

Operating Conditions

Operating pH Range	1 to 14
Service Flow Rate	
Demineralization	1-6 GPM/ft ²
Condensate Polishing	1-65 GPM/ft ² (dependent on operating conditions and performance expectations)
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