

USF C-381 SG H CATION RESIN

Description:

USF C-381 SG 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 organic fouling when treating aggressive waters. USF C-381 SG H 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
16 Hour Soak TOC	< 5 ppm
Dynamic TOC	< 50 ppb @ 15 BV

Physical Properties

Particle Screen Sizing	
+ 16 Mesh	5% maximum
- 50 Mesh	0.5% 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	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