

USF C-361 (H) CATION RESIN

Description:

USF C-361 (H) is a 10% cross-linked gel strong acid cation exchange resin consisting of a sulfonated polymer matrix of styrene and divinylbenzene supplied in the hydrogen form. 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)	Hydrogen
Moisture Content	46 - 51% (H form)
Exchange Capacity	2.0 meq / ml minimum (H form)
Conversion to Hydrogen Form	99% minimum
Impurities	
Iron (Fe)	50 ppm maximum
Aluminum (Al)	50 ppm maximum
Copper (Cu)	50 ppm maximum
Heavy Metals (as Pb)	50 ppm maximum
Kinetics	> 15 megohm (Siemens Kinetics Test)

Physical Properties

Particle Screen Sizing	
+ 16 Mesh	5% maximum
- 50 Mesh	1% maximum
Whole Beads (%)	90 minimum
Shipping Weight	51 lbs. / cu. ft.

Operating Conditions

Operating pH Range	1 to 14
Service Flow Rate	1 to 3 gpm/ft ³
Regenerant Flow Rate	
HCl	0.5 to 1.0 gpm / cu. ft.
H ₂ SO ₄	0.5 to 2.0 gpm / cu. ft.
Rinse Flow Rate	0.5 to 1.5 gpm / cu. ft.
Rinse Volume	40 to 75 gallons / cu. ft.
Maximum Operating Temperature	250°F