SIEMENS

USF C-211 XRR (H) CATION RESIN

Description:

USF C-211 XRR (H) is an 8% cross-linked gel strong acid cation exchange resin consisting of a sulfonated polymer matrix of styrene and divinylbenzene supplied in the hydrogen form. This resin has a high exchange capacity and good chemical resistance over a wide pH range. This resin is specially processed in compliance with FDA 21 CFR 173.25 for food grade applications.

Chemical Properties

Functional Group	Sulfonic Acid
Ionic Form (as shipped)	Hydrogen
Moisture Content	50% - 56% (H form)
Exchange Capacity	1.8 meq / ml minimum (H form)
Kinetics	> 15 megohm (Siemens Kinetics Test)

Physical Properties

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

Operating Conditions

Operating pH Range	1 to 14
Service Flow Rate	1 to 5 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^{o}F