

USF C-211SG H LOW TOC CATION RESIN

Description:

USF C-211SG H low TOC is an 8% cross-linked gel, strong acid cation resin in bead form. The resin has a high exchange capacity, excellent stability at elevated temperatures, and good chemical resistance over a wide pH range. This resin is typically used in deionization and chemical processing applications. It is analyzed kinetically to ensure it is capable of producing 18 megohm mixed bed deionized water. This resin is specially processed to be low in TOC leachables.

Chemical Properties

Ionic Form As Shipped	Hydrogen
Moisture Content	50 - 56% (H form)
Exchange Capacity	1.8 meq / ml minimum (H form)
Conversion to Hydrogen Form	99% minimum
Impurities	
Sodium (Na)	50 ppm maximum
Iron (Fe)	50 ppm maximum
Aluminum (Al)	50 ppm maximum
Copper (Cu)	50 ppm maximum
Heavy Metals (as Pb)	50 ppm maximum
TOC Leachables at 15 Bed Volumes	50 ppb maximum
Kinetics	> 17 megohm

Physical Properties

Particle Screen Sizing	
+ 16 Mesh	5% maximum
- 50 Mesh	0.5% maximum
Friability Average	200 grams/bead minimum
Shipping Weight	50 lbs. / cu. ft.

Operating Conditions

Operating pH Range	1 to 14
Service Flow Rate	1 to 50 gpm / ft ²
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