

USF NR-31LC MIXED BED RESIN

Description:

USF NR-31LC is a 1:1 chemical equivalent of a 10% cross-linked cation and a Type I gel anion. The cation and anion components are specially selected to provide a high quality mixed bed resin. Both resins are styrene divinylbenzene based. The individual components are specially processed to have low TOC leachables and be highly converted with low impurities. This mixed bed resin is specially processed to have very low chloride content.

Chemical Properties

Functional Groups	Sulfonic Acid, Trimethylamine
Ionic Form (as shipped)	Hydrogen / Hydroxide mix
Moisture Content	51% max. (H form cation)/48% max. (Cl form anion)
Exchange Capacity	2.0 meq / ml minimum (H form cation) / 1.2 meq / ml minimum (OH form anion)
Kinetics	> 17 megohm (Siemens Kinetics Test)
% Conversion	
Cation	99% minimum (H form)
Anion	94% minimum (OH form)
Impurities	
Chloride (Cl)	0.1% Cl maximum
Sulfate (SO ₄)	0.2% SO ₄ maximum

Physical Properties

Particle Screen Sizing	
+ 16 Mesh	5% maximum
- 50 Mesh	0.5% maximum
Whole Beads (%)	95 minimum
Shipping Weight	45 lbs. / cu. ft.

Operating Conditions

Operating pH Range	1 to 14
Maximum Operating Temperature	140°F