



USF NR-6LC MIXED BED RESIN

Description:

USF NR-6LC is a 1:1 chemical equivalent of USF NR-1 and NR-2LC. USF NR-1 is a strong acid cation exchange resin that is manufactured from polystyrene and is cross-linked with divinylbenzene. This resin is a gel cation with an amber to dark bead appearance. USF NR-2LC is a strong base Type I gel anion resin consisting of a styrene divinylbenzene matrix with an amber color. NR-1 and NR-2LC are specially processed to have low TOC leachables.

Chemical Properties

Ionic Form (as shipped)	Hydrogen / Hydroxide mix
Moisture Content	55% max. (H form cation) / 48% max. (Cl form anion)
Exchange Capacity	1.8 meq / ml min. (H form cation) / 1.2 meq / ml min. (OH form anion)
Kinetics	> 17 megohm (USFilter Kinetics Test)
Conversion:	
Cation	99% minimum (H form)
Anion	94% minimum (OH form)
Impurities	
Chloride (Cl)	0.1% maximum
Sulfate (SO ₄)	0.5% maximum
Carbonate (CO ₃)	5% maximum
Sodium (Na)	100 ppm maximum
Iron (Fe)	200 ppm maximum
Copper (Cu)	50 ppm maximum
Aluminum (Al)	50 ppm maximum
Heavy Metals (as Pb)	50 ppm maximum

Physical Properties

Particle Screen Sizing	
+ 16 Mesh	5% maximum
- 50 Mesh	0.5% maximum
Effective Size (Approximate)	0.40 - 0.60 mm
Whole Beads (%)	90 minimum
Shipping Weight	45 lbs. / cu. ft.

Operating Conditions

Operating pH Range	1 to 14
Service Flow Rate	1 to 4 gpm / cu. ft.
Maximum Operating Temperature	140°F