

USF NR-2LC ANION RESIN

Description:

USF NR-2LC is a Type I strong base gel anion resin consisting of a styrene divinylbenzene matrix supplied in the hydroxide form. This resin product is specially processed to provide excellent mixed bed separation and low TOC leachables. It is analyzed kinetically to ensure it is capable of producing high-quality mixed bed deionized water.

Chemical Properties

Functional Group	Trimethylamine
Ionic Form (as shipped)	Hydroxide
Moisture Content	43 - 48% (Cl form)
Exchange Capacity	1.2 meq / ml minimum (OH form)
Conversion to Hydroxide Form	94% minimum
Impurities	
Chloride (Cl)	0.1% maximum
Sulfate (SO ₄)	0.5% maximum
Carbonate (CO ₃)	5% maximum
Kinetics	> 17 megohm (Siemens Kinetics Test)

Physical Properties

Particle Screen Sizing	
+16 Mesh	5% maximum
- 50 Mesh	0.5% maximum
Whole Beads (%)	90 minimum
Shipping Weight	42 lbs. / cu. ft.

Operating Conditions

Operating pH Range	0 to 14
Service Flow Rate	
Demineralization	1-6 GPM/ft ²
Condensate Polishing	1-65 GPM/ft ² (dependent on operating conditions and performance expectations)
Regenerant Flow Rate	0.25 - 0.5 gpm / cu ft
Rinse Flow Rate	0.25 - 0.5 gpm / cu ft initially, then 1.5 gpm / cu ft
Rinse Volume	30 - 80 gallons / cu ft
Maximum Operating Temperature	140°F