

USF A-284RLS OH ANION RESIN

Description:

USF A-284RLS OH 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 have very low TOC leachables and dynamic sodium levels for use in the nuclear industry.

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	
Chlorides (Cl)	0.5% maximum
Sulfates (SO ₄)	0.5% maximum
Carbonates (CO ₃)	5% maximum
TOC (15 bed volumes of rinse)	≤10 ppb maximum above the influent
Sodium (15 bed volumes of rinse)	≤20 ppt maximum above the influent
Kinetics	> 17 megohm (Siemens Kinetics Test)

Physical Properties

Particle Screen Sizing	
+ 16 Mesh	5% maximum
- 50 Mesh	0.5% maximum
Friability	
Average (gm / bd)	350
% > 200 gm / bd	95
Whole Beads (%)	95 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	60 - 75 gallons / cu. ft.
Maximum Operating Temperature	140°F