

USF A-254 PSSG OH ANION RESIN

Description:

USF A-254 PSSG OH anion resin is a specially processed resin for nuclear applications. The starting material, USF A-254, is a Type I uniform particle size strong base gel anion resin that has been specially processed by Siemens for low TOC and enhanced separability.

Chemical Properties

Functional Group	Trimethylamine
Ionic Form (as Shipped)	Hydroxide
Moisture Content	42 – 50% (Cl form)
Exchange Capacity	1.0 meq / ml minimum (OH form)
Kinetics	18 megohm (Siemens Kinetics Test)
Conversion to Hydroxide Form	94% minimum
Impurities	
Chloride (Cl)	0.2% maximum
Sulfate (SO ₄)	0.2% maximum
Carbonate (CO ₃)	5% maximum

Physical Properties

Particle Size	
+ 20 Mesh	2% maximum
- 50 Mesh	0.2% maximum
Effective Size	590 ±50 μm
Whole Beads (%)	95 minimum
Friability	350 g / bead average
	90% > 200 g / bead

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/ft ³
Rinse Flow Rate	0.25 - 0.5 GPM/ft ³ initially, then 1.5 GPM/ft ³
Rinse Volume	60 - 75 gal/ft ³
Maximum Operating Temperature	140°F
Shipping Weight	40 lbs. / cu. ft.