

USF A-464 (OH) ANION RESIN

Description:

USF A-464 (OH) is a Type I porous strong base gel anion resin consisting of a styrene divinylbenzene polymer matrix functionalized with a quaternary amine supplied in the hydroxide form. This resin has the ability to remove anions and weak acids from aqueous solutions, such as carbonic and silicic acids. This resin is tested kinetically to verify operating performance.

Chemical Properties

Functional Group	Trimethylamine
Ionic Form (as shipped)	Hydroxide
Moisture Content	52 - 59% (Cl form)
Exchange Capacity	1.0 meq / ml (OH form)
Conversion to Hydroxide Form	85% minimum
Kinetics	> 15 megohm (Siemens Kinetics Test)

Physical Properties

Particle Screen Sizing	
+ 16 Mesh	5% maximum
- 50 Mesh	1% maximum
Uniformity Coefficient	1.5 maximum
Whole Beads (%)	90 minimum
Shipping Weight	40 lbs. / cu. ft.

Operating Conditions

Operating pH Range	0 to 14
Service Flow Rate	2 - 4 gpm / cu. ft.
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