

USF A-284 ANION RESIN

Description:

USF A-284 is a Type I strong base gel anion resin consisting of a styrene divinylbenzene polymer matrix functionalized with a quaternary amine supplied in the chloride form. This resin when regenerated to the hydroxide form has the ability to remove anions and weak acids from aqueous solutions, such as carbonic and silicic acids. This resin is particularly well-suited for low silica effluent requirements and is tested kinetically to verify operating performance.

Chemical Properties

Functional Group	Trimethylamine
Ionic Form (as shipped)	Chloride
Moisture Content	43 - 48% (Cl form)
Exchange Capacity	1.4 meq / ml minimum (Cl form)
Kinetics	> 15 megohm (Siemens Kinetics Test)

Physical Properties

Particle Screen Sizing	
+16 Mesh	5% maximum
-50 Mesh	1% maximum
Effective Size	0.45 - 0.60 mm
Whole Beads (%)	90 minimum
Shipping Weight	44 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