

USF A-674 ANION RESIN

Description:

USF A-674 is a Type I strong base anion resin consisting of a styrene divinylbenzene polymer matrix functionalized with a quaternary amine supplied in the chloride form. This resin is macroporous and 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 type of resin is more resistant to chemical attack and organic fouling when treating aggressive waters.

Chemical Properties

Functional Group	Trimethylamine
Ionic Form (as shipped)	Chloride
Moisture Content	54 - 64% (Cl form)
Exchange Capacity	1.0 meq / ml minimum (Cl form)
Kinetics	> 15 megohm (Siemens Kinetics Test)

Physical Properties

Particle Screen Sizing	
+16 Mesh	5% maximum
-50 Mesh	3% maximum
Particle Size	0.40 - 1.2 mm
Swelling	10 - 20% Cl to OH
Whole Beads (%)	95 minimum
Shipping Weight	42 lbs. / cu. ft.

Operating Conditions

Operating pH Range (stability)	0 to 14
Service Flow Rate	1 - 4 gpm / cu. ft.
Regenerant Flow Rate	0.25 - 1.0 gpm / cu. ft.
Rinse Flow Rate	0.25 - 2.0 gpm / cu. ft.
Maximum Operating Temperature	140°F