

USF A-674 (OH) ANION RESIN

Description:

USF A-674 (OH) is a Type I strong base anion resin consisting of a styrene divinylbenzene polymer matrix functionalized with a quaternary amine supplied in the hydroxide form. This resin is macroporous and 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) | Hydroxide |
| Moisture Content | 54 - 64% (Cl form) |
| Exchange Capacity | 0.9 meq / ml minimum (OH form) |
| Kinetics | > 15 megohm (Siemens Kinetic 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 | 40 lbs. / cu. ft. |

Operating Conditions

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|--------------------------------|--------------------------|
| 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 |