

FUJITEC FC120FD

Strong Acid Cation Exchange Resin, Gel Type / Food Grade

FUJITEC FC120FD is a bead form polystyrene sulphonate cation exchange resin and high total capacity. It has excellent physical and chemical properties such as high capacity and operating capacity, lower pressure drop, well physical and chemical stability. The product is supplied in the sodium or hydrogen forms. FUJITEC FC120FD is used in all water softening, demineralization, deionization, preparation of pure water and ultra-pure water, food industry, pharmaceuticals and chemical processing applications

Applications & Benefits

- Water Softening
- Water DemineralizationPolishing when use combine FA400
- Complies with FDA regulations for potable water application : Conforms to paragraph 21 CFR 173.25 of the Food additives regulation of the FDA
- Complies with USDA regulation for potable water system
- High Total Capacity

Typical Physical and Chemical Characteristics

Polymer Structure	Gel polystyrene crosslink with DVB
Functional Group	Sulfonic acid
Ionic Form as Shipped	Na ⁺
Appearance	Clear Spherical Beads
Total Capacity, Na ⁺ Form (min)	2.0 eq/l
Bead Size Range	16 X 50 US mesh (0.32 - 1.25 mm)
+16 mesh (U.S. Std),	< 5%
-50 mesh (U.S. Std)	< 1%
Uniformity Coefficient (max.)	1.6
Moisture Content (%)	44 - 48
Shipping Weight (approx.)	805 - 845 g/l (52.8 - 50.3 lbs/cu.ft ³)
Reversible Swelling, Na ⁺ -> H ⁺ (max.)	10 %
Reversible Swelling, Ca ²⁺ -> Na ⁺ (max.)	8 %
pH Range	0 -14
Temperature Limit, Na ⁺ Form (oC)	120 oC

Suggested Operating Conditions

Regenerate	NaCl
Regenerate Level (g/mol)	100 - 120
Regenerate Concentration	5 - 8 %
Regenerate Contact Time (min)	30
Regenerate Flow Rate (m/h)	4 - 5
Exchange Flow Rate (m/h)	4 - 5
Exchange Time (min)	20 - 30
Rinsing Time (min)	10 - 20
Operating Flow Rate (m/h)	15 - 30

Packing

25 liter/Bag

Technical Data Sheet

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