www.g-ionresin.com

GC-002

Gel Strong Acid Cation Exchange Resin

Product Description & Applications

G-ion GC-002 is a light colored, gel type sulfonated polystyrene cation resin supplied in the sodium form as moist, tough uniform spherical beads..lization, deionization and chemical processing applications.

G-ion GC-002 is well suited for industrial, commercial or residential softening applications where free chlorine is not present because of its high capacity and good physical stability.

G-ion GC-002 is certified by WQA to NSF/ANSI 44&61 for materials safety, is well used for residential softening and drinking water systems.





ION EXCHANGE RESIN

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G-IO

ION EXCHANGE RESIN

Suggested operating conditions

Maximum Tem	perature Na⁺ form H⁺ form	120ºC (248ºF) max. 100ºC (212ºF) max.
Minimum Bed Depth		0.6 m (24 inches)
Backwash Rate		25-50% Bed Expansion
Regeneration	Sodium Cycle Hydrogen Cycle Flow Rate Contact Time	8-20% NaCl 10% HCl, 2-8% H2SO4 2 to 7 BV/h (0.25 to 0.90 gpm/cu.ft) At least 30 Minutes
Displacement Rinse Rate		Same as Regenerant Flow Rate
Displacement Rinse Volume		10 -15 gallons/cu.ft
Fast Rinse Rate		Same as Service Flow Rate
Fast Rinse Volume		35-60 gallons/cu.ft
Service Flow Rate		4-8 BV/h (1.0-5.0 gpm/cu.ft)

Hydraulic properties



Pressure Drop:

The graph above shows the expected pressure loss per foot of bed depth as a function of flow rate at various Temperatures.

Backwash Expansion 100 80 Persant Expansion 60 8 40 100 200 0 1 2 3 4 5 6 7 9 10 8 How Rate, ppaulso.t.

Backwash:

After each cycle the resin bed should be backwashed at a rate that expands the bed 50 to 75 percent. That will remove any foreign matter and reclassify the bed. The graph above shows the expansion characteristics of Pure G-ion GC-002 in the sodium form.