

Product Description

Pure PC002ID is a brown colored, gel type polystyrene sulfonate cation resin supplied in the sodium form as moist, tough spherical beads.

Applications -- softening

Pure PC002ID is well suited for industrial softening applications. Its high bead integrity, excellent chemical and physical stability, play a large part in its successful employment in these areas.

Typical Physical & Chemical Characteristics	
Polymer Matrix Structure	Polystyrene crosslinked with 7% DVB
Functional Group	R-(SO ₃)-M+
Ionic Form, as shipped	Sodium (Na ⁺)
Physical Form And Appearance	Clear Spherical Beads
Sphericity	95% min.
Screen Size Range U.S. Standard Screen	16-50 mesh, wet
Particle Size Range	+1.2 mm < 5%, -0.3 mm < 1%
Uniformity Coefficient	1.6 max.
Water Retention, Na ⁺ form	48-58%
Swelling Na ⁺ → H ⁺ Ca ²⁺ → Na ⁺	10% max. 5% max.
Shipping Weight, Na ⁺ form	770-870 g/l (50 lbs/cu.ft, approx.)
Total Exchange Capacity, Na ⁺ form	1.80 eq/l min.
pH Range	0-14

Marketing Dept.

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PURE RESIN

Gel Strong Acid Cation Exchange Resin

Suggested Operating Conditions

Maximum Temperature

Na⁺ form 120°C (248°F) max. H⁺ form 100°C (212°F) max.

Minimum Bed Depth 0.6 m (24 inches)

Backwash Rate 50-75% bed expansioj

Regeneration

Regenerant Concentration 8-20% NaCl or saturated salt water

Flow Rate 2 to 7 BV/h (0.25 to 0.90 gpm/cu.ft)

Contact Time At least 30 Minutes

Displacement Rinse Rate Same as Regenerant Flow Rate

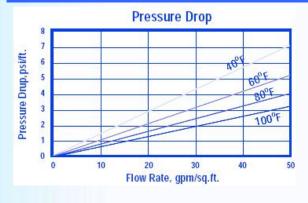
Displacement Rinse Volume 10-15 gallons/cu.ft

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: 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 PC002ID in the sodium form.

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