

PANDORA INDUSTRIES PVT. LTD.

Corporate Office: 362, Aggarwal Metro Heights, Netaji Subhash Place, Pitampura, Delhi-110034

CERTIFICATE OF ANALYSIS

PANION CR-1225 Na CATIONIC RESINS is a high purity premium grade, high exchange volume, gel type polystyrene cation resin supplied in the sodium or hydrogen form spherical beads. It is intended for use in all water softening, deionization and chemical processing applications.

TYPICAL PHYSICAL & CHEMICAL	CHARACTERISTICS
Polymer Matrix Structure	Polystyrene with DVB
Physical Form and Appearance	Clear spherical beads
Whole Bead Count	97% min.
Functional Groups	R ⁺ SO ₃ ⁻
Ionic Form as shipped	Na
Total Exchange Capacity, Na ⁺	1.90 meq/ml min.
Moisture Content,, Na ⁺ form	45-50%
Particle Size Range	0.3-1.2mm
Less than 0.3mm	1.0 %max
Swelling	10% max.
Shipping Weight (approx.)	790-800 g/l
Maximum Temperature Na ⁺ /H ⁺ Form	150° C /100° C
Minimum Bed Depth	0.6m(24inches)
Backwash Rate	25 to 50% Bed Expansion
Regenerent	4% to 6% NaCl
Regenerant Flow Rate	4 to 12 BV/h (0.5 to 1.5gpm/cu.ft.)
Regenerant Contact Time	At least 30 minutes
Regenerant Level	112-300g/L (4 to 10 pounds/cu.ft.)
Displacement Rinse Rate	Same as regenerant flow rate
Displacement Rinse Vol	10 to 15 gallons/cu.ft.
Fast Rinse Rate	Same as Service Flow Rate
Fast Rinse Volume	35 to 60 gallons/cu.ft.
Service Flow Rate	10-25m/h (2 to 10 gprn/cunt.)

Hydraulic Properties

A. Pressure Drop: The graph above shows the expected pressure loss per foot of bed depth as a function of flow rate, at various temperatures.

B. Backwash After each cycle the resin bed should be backwashed at a rate that expands the bed 25 to 50 percent. This will remove any foreign matter and reclassify the bed.