

# C100

## Strong Acid Cation Exchange Resin

### GENERAL DESCRIPTION

**C100** is a gel type strongly acidic cation exchange resin of the sulphonated polystyrene type. It is used for water softening (in Na<sup>+</sup> form) in regenerated units. Its principal characteristics are excellent physical, chemical and thermal stability, good ion exchange kinetics and high exchange capacity.

### TYPICAL PRODUCT PROPERTIES

Matrix	: Styrene divinylbenzene copolymer
Functional Groups	: Sulphonates
Physical Form	: Beads
Ionic Form As Shipped	: Na <sup>+</sup>
Total Exchange Capacity	: ≥2.0eq/L (Na <sup>+</sup> form)
Cross Linkage (DVB)	: 8%
Moisture Holding Capacity	: 43 to 50 % (Na <sup>+</sup> form)
Shipping Weight	: 770 to 880g/L
Specific Gravity	: 1.25 to 1.29 (Na <sup>+</sup> form)
Particle Size	
Uniformity Coefficient	: <1.7
Effective Particle Size	: 0.45 to 1.20mm
Fine Contents	: <0.30mm: 1.0% max
Maximum Reversible Swelling	: Na <sup>+</sup> →H <sup>+</sup> : 10 %
Chemical Resistance	: In Soluble In Dilute Solutions of Acids or Bases and Common Solvents

### SUGGESTED OPERATING CONDITIONS

It is strongly recommended to carry out backwashing of 2- 4BV before putting the resin in service.

Maximum Temperature	:	120 °C
Minimum Bed Depth	:	800mm
Service Flow Rate	:	5 - 50 BV/h
Regenerant	:	NaCl
Level(g/L)	:	80 to 250
Brine Concentration(%)	:	10
Brine Flow Rate (BV/h)	:	2 to 4
Minimum Contact time	:	30 min
Slow Rinse	:	2BV at Regeneration Flow Rate
Fast Rinse	:	2 to 4 BV at Service Flow Rate

### PACKAGING

**C100** is available in 25 liter bag.