



C-100E Strong Acid Cation Exchange Resin

Product Description

Purolite C-100E is a high purity premium grade bead from conventional gel polystyrene sulphonate cation exchange resin designed expressly for the treatment of foodstuffs, beverages, potable waters, and water used in the processing of food. Its specification is such that it will exceed the relevant EEC requirements, and the resin is in compliance with the US Food & Drug Administration Code of Federal Regulations - Section 21, Paragraph 173.25 - for use in the treatment of foods for human consumption. Its high bead integrity, excellent chemical and physical stability and very low extractibles content play a large part in its successful employment in these areas.

Typical Physical & Chemical Characteristics

Polymer Matrix Structure	Crosslinked Polystyrene Divinylbenzene
Physical Form and Appearance	Clear Spherical Beads
Whole Bead Count.....	90% minimum
Functional Groups	R-SO ₃
Ionic Form, as shipped	Na ⁺
Shipping Weight (approx)	850 g/l (53 lb/ft ³)
Screen Size Range:	
US Standard Screen.....	16 - 50 mesh, wet
Particle Size Range.....	+1.2 mm <5%, -0.3 mm <1%
Moisture Retention, Na ⁺ Form.....	46 - 50%
Swelling	
Na ⁺ ÷ H ⁺	5% maximum
Ca ⁺⁺ ÷ Na ⁺	8% maximum
Specific Gravity, moist Na ⁺ Form	1.27
Total Exchange Capacity, Na ⁺ Form:.....	
Wet, volumetric.....	1.9 eq/ml minimum
Dry, weight	4.5 eq/g minimum
Operating Temperature, Na ⁺ Form	150°C (300°F) maximum
pH Range, Stability, Na ⁺ Form	0 - 14
pH Range, Operating, Na ⁺ Form.....	6 - 10

For complete specifications, please contact our Customer Service Department



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