

Gel Type Strong Acid Cation Exchange Resin

Purolite C100E is a high purity premium grade bead form 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 U.S. Food & Drug PRODUCT DESCRIPTION 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.

Basic Features:

Application	Domestic/Industrial/Food grade softening
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic acid
Ionic form as shipped	Na ⁺

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Na ⁺	1.90 eq/l
Total Capacity (min.)	Na ⁺	41.48 kGr/ft ³
Moisture Retention	Na ⁺	46-50 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Na ⁺ → H ⁺	10 %
Reversible Swelling (max.)	Ca ₂ ⁺ → Na ⁺	8 %
Specific Gravity		1.27 g/ml
Shipping Weight (approx.)		800-840 g/l
Shipping Weight (approx.)		50-52.5 lbs/ft ³
Temp Limit	H ⁺	120 °C
Temp Limit	H ⁺	250 °F
Temp Limit	Na ⁺	140 °C
Temp Limit	Na ⁺	285 °F

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pH Limits

0-14

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