

C-100E

Strong Acid Cation-Exchange Resin (Clear Gel)
(FOR WATER SOFTENING)

Technical Data

PRODUCT DESCRIPTION

Purolite C-100E is a high purity premium grade of conventional gel poly(styrene sulphonate) cation-exchange resin designed expressly for the treatment of foodstuffs, beverages, potable waters, and water used in the processing of food. **Purolite C-100E** is in compliance with the U.S. Food and Drug Administration Code of Federal Regulations section 21, paragraph 173.25 for use in the treatment of foods for human consumption, and the equivalent EEC requirements.

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. In order to maintain the required standards this product must be stored under the recommended conditions, in the packaging supplied, and be given the appropriate conditioning rinse (as laid down by the above directives) before use. Any unused resin should not be left open for use at a later date, because of the possibility of external contamination.

Typical Chemical & Physical Characteristics

Polymer Matrix Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Poly(styrene sulphonate)
Ionic Form - as shipped	Sodium - Na ⁺
Total Capacity (Na ⁺ Form) min	1.9 eq/l
Moisture Retention (Na ⁺ Form)	46-50%
Bead Size Range (microns)	+1200 <5%, -300 <1%
(U.S. Standard Screen)	16-50 mesh
Reversible Swelling (Ca ⁺⁺ → Na ⁺)	8%
Specific Gravity (Na ⁺ Form)	1.27
Shipping Weight	800-850 kg/m ³ (50-53 lb/ft ³)
Temperature Limit (Na ⁺ Form)	140°C (285°F)
pH Limits	None