

Purolite® C100E

Gel Strong Acid Cation Resin

Purolite C100E is a high purity premium grade bead form conventional gel polystyrene sulfonate 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 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 AND CHEMICAL CHARACTERISTICS

BASIC FEATURES:

Application	Softening - Domestic/Industrial/Food grade
Polymer Structure	Gel polystyrene crosslinked with DVB
Appearance	Amber, clear spherical beads
Functional Group	Sulfonic acid
Ionic Form as Shipped	Na ⁺

PRODUCT INFORMATION:

Total Capacity (min.)	1.9 eq/l (41.5 Kgr/ft ³) (Na ⁺ form)
Moisture Retention	46 - 50 % (Na ⁺ form)
Particle Size Range	300 - 1200 µm
<300 µm (max.)	1 %
Uniformity Coefficient (max.)	1.7
Reversible Swelling Ca²⁺ → Na⁺	8 %
Reversible Swelling, Na⁺ → H⁺ (max.)	10 %
Specific Gravity	1.27
Shipping Weight (approx.)	800 - 840 g/l (50 - 52.5 lb/ft ³)
Temperature Limit	120°C (250°F)