

Gel Type Strong Acid Cation Exchange Resin

Purolite C100EH is a premium grade of conventional gel poly(styrene sulphonate) cation-exchange resin of exceptionally high purity, specially manufactured for use in demineralisation of solutions destined for potable use or treatment of foodstuffs, beverages, potable waters and water used in the processing of food. Purolite C100EH 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, very low extractables content, and controlled bead size distribution ensure its successful employment in the hydrogen cycle both in co-current and counter current operations. 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.

Basic Features:

Application	Demineralization of Potable Water in the regenerated Hydrogen form
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic acid
Ionic form as shipped	H ⁺

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Na ⁺	1.90 eq/l
Total Capacity (min.)	Na ⁺	41.48 kGr/ft ³
Moisture Retention	H ⁺	53-57 %
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		1.19 g/ml
Shipping Weight (approx.)		750-785 g/l
Shipping Weight (approx.)		46.9-49.1 lbs/ft ³
Temp Limit	H ⁺	120 °C
Temp Limit	H ⁺	250 °F
Temp Limit	Na ⁺	140 °C

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Temp Limit	Na ⁺	285 °F
pH Limits		0-14

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