

Gel Type Strong Acid Cation Exchange Resin

Purolite C100X10 is a premium high purity grade of conventional gel poly(styrene sulphonate) cation-exchange resin. Its chemical and physical stability, particularly its resistance to oxidation and very low extractibles content plays a large part in its successful employment in demineralisation of water. The size grading ensures trouble free operation in both standard co-flow and counter-flow operation. The higher density spheres of the graded cation resin ensures good backwash separation at the recommended flow rates. The low percentage swelling on conversion from exhausted to regenerated form allows the resin bed to be free of compacted areas when reintroduced to service in the exhaustion cycle. This ensures low pressure drop during service. Purolite C100X10 is available in a number of grades specially designed the the particular application.

Basic Features:

Application	Highly crosslinked cation resin that results in good oxidation resistance
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 ⁺	2.20 eq/l
Total Capacity (min.)	Na ⁺	48.03 kGr/ft ³
Moisture Retention	Na ⁺	40-43 %
Mean Size Typical		0.6-0.85 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Na ⁺ → H ⁺	6 %
Specific Gravity		1.30 g/ml
Shipping Weight (approx.)		820-860 g/l
Shipping Weight (approx.)		51.3-53.8 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

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