

Super Gel Type Strong Acid Cation Exchange Resin

Purolite SGC100x10TLH is a premium grade of conventional gel poly(styrene sulphonate) cation-exchange resin made to specially tailored specifications best suited for demineralization of water in high flow applications using TRILITE mixed beds for make-up or condensate polishing and other related systems where its consistency of particle size results in good separation. Its high bead integrity, excellent chemical and physical stability, and controlled bead size distribution play a large part in its successful employment in the hydrogen cycle in mixed bed operation, where near perfect separation prior to regeneration must be guaranteed to produce the high purity of treated water which is essential for a number of applications. When used as the cation component in mixed bed systems Purolite SGC-100x10TLH should be mixed with the TL, C, MB or PL grade of the chosen Purolite anion resin usually of Type-I. This may be the gel type Purolite SGA600TL, or the macroporous Purolite A500TL. In resin transfer systems, the interface may be set aside.

Basic Features:

Application	Uniform Super Gel cation for Condensate Polishing - High Flow Rate (10% crosslinked DVB)
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	H ⁺	47-50 %
Mean Size Typical		0.65-0.80 mm
Uniformity Coefficient (max.)		1.30
Specific Gravity		1.30 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
pH Limits		0-14

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