

Shallow Shell Technology Gel Type Strong Acid Cati

The Purolite SST family of high efficiency resins is based on shallow shell technology. Simply stated, the shorter the diffusion path, the more rapid the ion exchange occurs. This is particularly important during regeneration. Reducing the depth of penetration required to cleanse the resin allows for a more complete regeneration and provides a higher, more efficient utilization of the regenerant. The result is a group of resins with unsurpassed regeneration efficiency, lower leakage and reduced rinse water requirements. When compared to conventional resins regenerated at the same level, run lengths are virtually unchanged yet 60% - 90% lower sodium leakage can be achieved.

Basic Features:

Application	Hydrogen Form - Shallow Shell Technology for Regenerant Savings
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic acid
Ionic form as shipped	H ⁺

Typical Physical and Chemical Characteristics:

Mean Size Typical	0.60-0.85 mm	
Uniformity Coefficient (max.)	1.70	
Temp Limit	H ⁺	120 °C
Temp Limit	H ⁺	250 °F
Temp Limit	Na ⁺	140 °C
Temp Limit	Na ⁺	285 °F
pH Limits	0-14	