

*Shallow Shell Technology Strong Acid Cation*

The Purolite SST family of high efficiency softening resins is based on shallow shell technology. Simply stated, the shorter the diffusion path, the more rapid the softening 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 salt efficiency, lower leakage, and reduced rinse water requirements. When compared to conventional softening resins, regenerant reductions of 2 to 4 lbs. per cubic foot of resin per regeneration is possible without sacrificing capacity or increasing leakages. This translates to a salt savings of 700 to 1,400 lbs. per cubic foot per year based on daily regenerations.

**Typical Physical and Chemical Characteristics**

**BASIC FEATURES:**

**Application** - Shallow Shell Technology Resin for Regenerant and Rinse Savings - Na<sup>+</sup> form

**Polymer Structure** - Gel polystyrene crosslinked with divinylbenzene

**Appearance** - Spherical beads

**Functional Group** - Sulfonic acid

**Ionic Form as Shipped** - Na<sup>+</sup>

**PRODUCT INFORMATION:**

Total Capacity (min.)	3.8 eq/kg (Na <sup>+</sup> form)
Moisture Retention	38 - 46 % (Na <sup>+</sup> form)
Particle Size Range	300 - 1200 µm
<300 µm (max.)	1 %
Uniformity Coefficient (max.)	1.7
Reversible Swelling, Na <sup>+</sup> → H <sup>+</sup> (max.)	8 %
Specific Gravity	1.20 (Na <sup>+</sup> form)
Shipping Weight (approx.)	775 - 825 g/l (48.4 - 51.6 lb/ft <sup>3</sup> )
Temperature Limit	60 °C (140 °F)

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