

Super Gel Type I Strong Base Anion Exchange Resin

Purolite SGA550SO4 is a uniform particle size, SuperGel grade of poly(styrene quaternary amine) anion-exchange resin with a small mean diameter. It is made to specially tailored specifications best suited for demineralization of water in high flow applications for make-up or condensate polishing and other related systems where their consistency of particle size is an important parameter. Its high bead integrity, excellent chemical and physical stability, fast exchange kinetics and controlled bead size distribution play a large part in its successful employment in these applications. The excellent physical stability and osmotic shock resistance of Purolite SugerGel products helps to prevent pressure drop increase during operation. Purolite SGA550SO4 is recommended for use in mixed beds together with the uniform particle size cation component Purolite SGC650. The main advantages of a uniform particle size are increased regeneration efficiency, improved operating capacity, improved treated water leakage, better exchange kinetics especially at higher flow rates, reduced chemical consumption, less rinse water demand and better mixed bed separation.

Basic Features:

Application	Condensate Polishing - Uniform Bead Size
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Type 1 Quaternary Ammonium
Ionic form as shipped	SO4 ⁻

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Cl ⁻	1.40 eq/l
Total Capacity (min.)	Cl ⁻	30.57 kGr/ft ³
Moisture Retention	Cl ⁻	43-48 %
Mean Size Typical		0.50-0.60 mm
Uniformity Coefficient (max.)		1.10
Reversible Swelling (max.)	Cl ⁻ → OH ⁻	24 %
Specific Gravity		1.09 g/ml
Shipping Weight (approx.)		680-710 g/l
Shipping Weight (approx.)		42.5-44.4 lbs/ft ³
Temp Limit	OH ⁻	60 °C
Temp Limit	OH ⁻	140 °F
Temp Limit	Cl ⁻	100 °C
Temp Limit	Cl ⁻	212 °F

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PUROLITE® SGA550SO4
Strong Base Anion Gel

pH Limits		0-14 (Stability)
pH Limits	OH ⁻	1-10 (Operating)

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