

Gel Strong Base Anion Exchange Resin

Purolite A850 is a gel-type I strong base anion exchange resin with an acrylic matrix. The acrylic matrix ensures excellent removal of organic matter from a water supply in conjunction with its reversible removal upon regeneration. This resin is regenerated very efficiently with lower levels of sodium hydroxide than those required for a polystyrene based type I resin, and yet it has a comparable ability to remove weaker acids including carbonic acid and silica. Its use in combination with a polystyrene based resin (for instance in a mixed bed positioned after the anion unit) can often result in the removal of a wider spectrum of organic compounds than either type of anion resin alone.

Basic Features:

Application	Organics ;Tannin Removal and Demineralization - Excellent Resistance to Fouling
Polymer Structure	Gel Polyacrylic crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Quaternary Ammonium
Ionic form as shipped	Cl ⁻

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Cl ⁻	1.25 eq/l
Total Capacity (min.)	Cl ⁻	27.29 kGr/ft ³
Moisture Retention	Cl ⁻	57-62 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Irreversible Swelling (max.)		10 %
Reversible Swelling (max.)	Cl ⁻ → OH ⁻	15 %
Specific Gravity		1.09 g/ml
Shipping Weight (approx.)		680-730 g/l
Shipping Weight (approx.)		42.5-45.6 lbs/ft ³
Temp Limit	OH ⁻	40 °C
Temp Limit	OH ⁻	104 °F
Temp Limit	Cl ⁻	80 °C

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Temp Limit	Cl ⁻	175 °F
pH Limits		0-14 (Stability)
pH Limits	OH ⁻	1-10 (Operating)

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