PRODUCT DATA SHEET

Purolite® A850

Acrylic Gel Strong Base Anion Exchange Resin

Purolite A850 is a gel-type 1 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 1 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.

TYPICAL PHYSICAL AND CHEMICAL CHARACTERISTICS

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^-

PRODUCT INFORMATION:	
Total Capacity (min.)	1.25 eq/l (27.3 Kgr/ft^3) (Cl^- form)
Moisture Retention, Cl^- Form	57 - 62 %
Particle Size Range	300 - 1200 µm
<300 µm (max.)	1 %
Uniformity Coefficient (max.)	1.7
Irreversible Swelling (max.)	10 %
Reversible Swelling, $Cl^- \rightarrow OH^-$ (max.)	15 %
Specific Gravity	1.09
Shipping Weight (approx.)	680 - 730 g/l (42.5 - 45.6 lb/ft^3)
Temp Limit, OH^- Form	35°C (95°F)

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