

Product Data Sheet

PUROLITE® A870C Strong Base Anion Gel

info@lenntech.com www.lenntech.com Tel. +31-15-261.09.00 Fax. +31-15-261.62.89

Gel Mixed Base Anion Exchange Resin

Purolite A870C is a gel-type anion exchange resin with an acrylic matrix. The acrylic matrix ensures excellent removal of organic matter from a water supply and its reversible elution from the resin upon regeneron. The resin combines the advantages of extremely high operating capacity with the ability to remove both strong and weak acids from solution. including carbon dioxide and silica. In addition the change in volume from the regenerated to the exhausted forms is negligible. Hence any impaction which might ~ur is reduced. It follows that both the mechanical stress and maximum pressure loss values which occur during an ion exchange resin cycle are reduced. In addition the reduced impaction can produce a more homogeneous bed with reduced channeling. This is particularly useful for counter-current operation where high quality treated water is required. The Purolite A870C is regenerated very efficiently with lower levels of sodium hydroxide than those required for a polystyrene based resin. Its use in combination with the latter, (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 Demineralization - Good Resistance to Fouling

Polymer Structure Gel Polyacrylic crosslinked with divinylbenzene

Appearance Spherical beads

Functional Group Quaternary and Tertiary Ammonium

Ionic form as shipped FB / CI

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	CI ⁻	1.25 eq/l
Total Capacity (min.)	Cl	27.29 kGr/ft ³
Moisture Retention	Cl	56-62 %
Mean Size Typical		0.65-0.90 mm
Uniformity Coefficient (max.)		1.70
Irreversible Swelling (max.)		10 %
Reversible Swelling (max.)	$Cl^{-} \rightarrow OH^{-}$	-10 %
Specific Gravity		1.08 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



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Temp Limit	CI	80 °C
Temp Limit	Cl	175 °F
pH Limits		0-14 (Stability)
pH Limits	OH ⁻	1-10 (Operating)

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