

Gel Type Weak Base Anion Exchange Resin

Purolite A845C is a macroporous-type anion exchange resin with an acrylic matrix. The macroporous acrylic matrix ensures excellent removal of organic acids including those of high molecular weight from process liquors. The desorption which occurs upon regeneration markedly reduces the risk of resin fouling, thus maintaining the high operating capacity. Purolite A845C is regenerated very efficiently with lower levels of sodium hydroxide than those required for an equivalent polystyrene based resin. 110-120% of the stoichiometric quantity is usually sufficient. The tough resilient macroporous structure affords excellent mechanical strength and resistance to osmotic shock. The higher than average basicity offers advantages in removal of a wider range of more weakly acidic materials in many special applications.

Basic Features:

Application	Demineralization of Water High in Organic Matter - High Capacity; High Flow Rate
Polymer Structure	Gel Polyacrylic crosslinked with Divinylbenzene
Appearance	Spherical beads
Functional Group	Tertiary Amine
Ionic form as shipped	Free Base

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Free Base	1.60 eq/l
Total Capacity (min.)	Free Base	34.93 kGr/ft ³
Moisture Retention	Free Base	56-62 %
Mean Size Typical		0.65-0.90 mm
Uniformity Coefficient (max.)		1.70
Irreversible Swelling (max.)		5
Reversible Swelling (max.)	FB → Cl ⁻	25 %
Specific Gravity		1.08 g/ml
Shipping Weight (approx.)		665-695 g/l
Shipping Weight (approx.)		41.5-43.4 lbs/ft ³
Temp Limit	FB	40 °C
Temp Limit	FB	104 °F
Temp Limit	Cl ⁻	100 °C

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Temp Limit	Cl ⁻	212 °F
pH Limits		0-14 (Stability)
pH Limits	H ⁺	0-9 (Operating)

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