Macroporous Weak Base Anion Exchange Resin

Purolite A835 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 A835 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	Deionisation of Process Liquors
Polymer Structure	Macroporous 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 eq/l
Total Capacity (min.)	Free Base	21.83 kGr/ft^3
Moisture Retention	Free Base	65-73 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	FB → Cl$^-$	25 %
Specific Gravity		1.10 g/ml
Shipping Weight (approx.)		690-725 g/l
Shipping Weight (approx.)		43.1-45.3 lbs/ft^3
Temp Limit	OH$^-$	40 °C
Temp Limit	OH$^-$	104 °F
pH Limits		0-14 (Stability)
pH Limits	H$^+$	0-7 (Operating)