

Gel Type Weak Base Anion Exchange Resin

Purolite A845 is a gel-type 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. The pure weak base functionality results in high capacity and high regeneration efficiency. Reduced quantities of sodium hydroxide are sometimes required, compared with a polystyrene based resin. 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. Purolite A845 is particularly useful for the treatment of organic bearing waters which have caused organic fouling of conventional polystyrene resins, thus producing an extended rinse. Purolite A845 has excellent chemical and thermal stability, resistance to attrition and osmotic shock. These properties make the resin ideal for use in the pharmaceutical, chemical, and food processing industries, for the neutralization of strong acids and for other processes.

**Basic Features:**

Application	Demineralization of Water High in Organic Matter - High Capacity
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 <sup>3</sup>
Moisture Retention	Free Base	56-62 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Irreversible Swelling (max.)		5
Reversible Swelling (max.)	FB → Cl <sup>-</sup>	25 %
Specific Gravity		1.08 g/ml
Shipping Weight (approx.)		675-705 g/l
Shipping Weight (approx.)		42.4-44.1 lbs/ft <sup>3</sup>
Temp Limit	FB	40 °C
Temp Limit	FB	104 °F
Temp Limit	Cl <sup>-</sup>	100 °C

**USA**  
Telephone: (1) 610-668-9090  
Fax: (1) 610-668-8139  
Email: info@puroliteusa.com

**Europe**  
Telephone: +44 1443 229334  
Fax: +44 1443 227073  
Email: sales@purolite.com

**Asia Pacific**  
Telephone: +86 571 876 31385  
Fax: +86 571 876 31385  
Email: pultalan@purolitechina.com

Temp Limit	Cl <sup>-</sup>	212 °F
pH Limits		0-14 (Stability)
pH Limits	H <sup>+</sup>	0-9 (Operating)

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