

Macroporous Type II Strong Base Anion Exchange Res

Purolite A510S is a macroporous poly(vinylbenzyl-dimethyl-hydroxyethylammonium) exchanger with an excellent resistance to osmotic and physical shock. It has a high reversible sorptive capacity for complex organic materials, such as the decolorisation of a wide variety of solutions including sugar. Purolite A510S may be used in the chloride form and regenerated with 10% sodium chloride solution. An operating temperature up to 100oC is permissible when regenerated with sodium chloride. Also a 10% sodium chloride solution with up to 2% sodium hydroxide may be used for regeneration. This alkaline brine promotes the regeneration efficiency and also acts to prevent development of acidity in the treated solution. However when regenerated with alkaline brine the maximum permissible operating temperature is 35-45oC.

Basic Features:

Application	Reversible Uptake of Large Organic Molecules
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Type 2 Quaternary Ammonium
Ionic form as shipped	Cl ⁻

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Cl ⁻	1.20 eq/l
Total Capacity (min.)	Cl ⁻	26.20 kGr/ft ³
Moisture Retention	Cl ⁻	44-51 %
Mean Size Typical		0.65-0.90 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Cl ⁻ → OH ⁻	10 %
Specific Gravity		1.08 g/ml
Shipping Weight (approx.)		680-715 g/l
Temp Limit	OH ⁻	35 °C
Temp Limit	OH ⁻	95 °F
Temp Limit	Cl ⁻	100 °C
Temp Limit	Cl ⁻	212 °F
pH Limits		0-14 (Stability)
pH Limits	H ⁺	0-11 (Operating)

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