

Macroporous Type I Strong Base Anion Exchange Resin

Purolite A501P is a unique strong base type 1 anion exchange resin which has been developed for the removal of colloids especially colloidal silica. The pore size distribution has been optimized to ensure highest capacities for colloidal silica and hydrous metal oxides, including iron oxides, thus providing an added dimension in treating water to levels of absolute purity. The regenerability is excellent and Purolite A501P may be regenerated time after time without large resin losses. This is because Purolite A501P has an especially high mechanical strength for this type of product. Purolite A501P finds use in the semiconductor, medical and pharmaceutical fields.

Basic Features:

Application	High Porosity for the Removal of Colloids
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Type 1 Quaternary Ammonium
Ionic form as shipped	Cl ⁻

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Cl ⁻	0.60 eq/l
Total Capacity (min.)	Cl ⁻	13.10 kGr/ft ³
Moisture Retention	Cl ⁻	70-75 %
Mean Size Typical		0.60-0.80 mm
Uniformity Coefficient (max.)		1.50
Shipping Weight (approx.)		590-610 g/l
Temp Limit	OH ⁻	60 °C
Temp Limit	OH ⁻	140 °F
pH Limits		0-14 (Stability)
pH Limits	H ⁺	0-11 (Operating)
Average Pore Volume		1 ml/g
Average Breaking Weight		40 g

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