

Nuclear Grade Macroporous Type I Strong Base Anion Exchange Resin

Purolite A501POH is a 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 optimised 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.

Purolite A501POH may be regenerated time after time without large resin losses when applicable. Purolite A501POH has an especially high mechanical strength for this type of product, and finds its use in the semiconductor, medical, nuclear and pharmaceutical fields.

Basic Features:

Application	Removal of Radioactive Colloids
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Type 1 Quaternary Ammonium
Ionic form as shipped	OH ⁻

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	OH ⁻	0.40 eq/l
Total Capacity (min.)	OH ⁻	8.70 kGr/ft ³
Moisture Retention	Cl ⁻	70-75 %
Moisture Retention	OH ⁻	80-90 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Specific Gravity		1.09 g/ml
Shipping Weight (approx.)		41 - 43 lbs/ft ³
Temp Limit Non-Regenerable	OH ⁻	60 °C
Temp Limit Non-Regenerable	OH ⁻	140 °F
pH Limits		0-14
Ionic Form (min.)	OH ⁻	95 %

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Ionic Form (max.)	CO ₃ ⁻	5 %
Ionic Form (max.)	Cl ⁻	0.10 %
Ionic Form (max.)	SO ₄ ⁻	0.10 %
Impurities Sodium (max.)		30 ppm
Impurities Iron (max.)		50 ppm
Impurities Copper (max.)		10
Impurities Aluminium (max.)		50
Impurities Calcium (max.)		50
Impurities Magnesium (max.)		50
Impurities Heavy Metals(max.)		10 ppm

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