

Product Data Sheet

PUROLITE® A503

Strong Base Anion Macroporous

Macroporous Type I Strong Base Anion Exchange Resi

Purolite A503 is a macroporous poly(vinylbenzyl-trimethylammonium) exchanger with a large pore structure and exceptionally high operating capacity. It has been designed for use in the demineralization of aqueous solutions containing appreciable quantities of high-molecular weight organic materials of the fulvic or humic acid type. Its resistance to organic fouling is superior to that of the corresponding gel resins, as is its excellent resistance to osmotic and thermal shock. It has the normal thermal stability in most salt forms of the conventional Type 1 resin and good mechanical properties.

Basic Features:

Application Demineralization - High Operating Capacity

Polymer Structure Macroporous polystyrene crosslinked with divinylbenzene

Appearance Spherical beads

Functional Group Type 1 Quaternary Ammonium

Ionic form as shipped

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	CI ⁻	1 eq/l
Total Capacity (min.)	CI	21.83 kGr/ft ³
Moisture Retention	Cl	61-66 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	$CI^- \rightarrow OH^-$	20 %
Specific Gravity		1.08 g/ml
Shipping Weight (approx.)		670-700 g/l
Temp Limit	OH-	60 °C
Temp Limit	OH-	140 °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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