

Macroporous Type II Strong Base Anion Exchange Res

Purolite A513 is a macroporous poly(vinylbenzyl-dimethyl-hydroxyethyl ammonium) exchanger with a special structure showing excellent resistance to osmotic and thermal shock, a high operating capacity, especially on feedwaters containing a high concentration of mineral acidity (high FMA), and in addition high reversible sorptive capacity for the complex organic materials, both ionised and un-ionised, which occur in many surface water supplies. In a conventional two-stage deionizing plant, its silica-removal properties are comparable with those of any premium Type 2 strong-base anion exchanger; however, as with other resins of this type, a polishing mixed-bed is necessary to ensure the lowest levels of residual silica.

Basic Features:

Application	Demineralization - High Operating Capacity
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 eq/l
Total Capacity (min.)	Cl ⁻	21.83 kGr/ft ³
Moisture Retention	Cl ⁻	55-63 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.20
Reversible Swelling (max.)	Cl ⁻ → OH ⁻	10 %
Specific Gravity		1.07 g/ml
Shipping Weight (approx.)		660-710 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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