

Macroporous Type II Strong Base Anion Exchange Res

Purolite A510 is a macroporous type 2 strong base anion exchange resin. Its macroporous structure offers excellent resistance to osmotic and physical shock. Purolite A510 has a high operating capacity, especially on high-FMA feedwaters, as well as a high reversible sorptive capacity for complex organic materials, such as the fulvic and humic acids 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 resin; however, as with other resins of this type, a polishing mixed-bed is necessary to ensure the lowest levels of residual silica. Purolite A510 in the chloride form has a unique ability to remove organic color bodies from polluted waters, pharmaceutical and chemical streams. For these applications warm caustic soda or salt should be used (35-50°C).

Basic Features:

Application	Demineralization - Fluidized Beds & Continuous Systems
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		0.60-0.85 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)

LENNTECH

info@lenntech.com

www.lenntech.com

Tel. +31-15-261.09.00

Fax. +31-15-261.62.89