Purolite® A510Plus

Macroporous Type II Strong Base Anion Exchange Resin

PRODUCT DATA SHEET

Purolite A510Plus is a macroporous typeII strong base anion exchange resin. Its macroporous structure offers excellent resistance to osmotic and physical shock. **Purolite A510Plus** 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 A510Plus** 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).

Typical Physical and Chemical Characteristics

Application	Demineralization with High Regeneration Efficiency and Dealkalization
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Type II Quaternary Ammonium
Ionic Form as Shipped	Cl^-
Total Capacity (min.)	1.15 eq/l (25.1 Kgr/ft^3) (Cl^- form)
Moisture Retention	48 - 56 % (Cl^- form)
Particle Size Range	300 - 1200 µm
Uniformity Coefficient (max.)	1.7
Reversible Swelling, $Cl^- \rightarrow OH^-$ (max.)	10 %
Specific Gravity	1.08
Shipping Weight (approx.)	680 - 715 g/l (42.5 - 44.7 lb/ft^3)
Temp Limit, Cl^- Form	100°C (212°F)
Temp Limit, OH^- Form	35°C (95°F)

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