



A-510

Macroporous Type 2 Strong-Base Anion-Exchange Resin
(FOR USE IN WATER TREATMENT)

Technical Data

PRODUCT DESCRIPTION

PuroLite A-510 is a macroporous type 2 strong base anion exchange resin. Its macroporous structure offers excellent resistance to osmotic and physical shock. **PuroLite A-510** 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 A-510 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 Chemical and Physical Characteristics

Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	$R-(CH_2)_2(C_2H_4OH)N^+$
Ionic Form - as shipped	Chloride - Cl^-
Total Capacity (Cl^- Form)	1.2 ea/l min
Moisture Retention (Cl^- Form)	44-51%
Bead Size Range (microns)	+1200 <5%. -300 <1%
Screen Size Range (U.S. Standard Screen)	16-50 mesh. wet
Reversible Swelling ($Cl^- @ OH^-$)	15%
Specific Gravity (Cl^- Form)	1.08
Shipping Weight	680-715 kg/m^3 (42.5-44.5 lb/ft^3)
Temperature Limit	(Cl^- Form)
	100°C (212°F)
	(OH^- Form)
	35°C (95°F)
pH Limits	None