

Macroporous Type I Strong Base Anion Exchange Resin

Purolite A-510FL is a macroporous poly(vinylbenzyl -dimethyl-hydroxyethyl ammonium) exchanger with an excellent resistance to osmotic and physical shock. It 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. It is especially recommended for use in counterflow regeneration processes such as the Fluidlite technique where regeneration is carried out downflow. This technique ensures an efficient downflow displacement rinse when using high quality treated water. This is because there is little tendency for the higher density regenerant to mix with the lower density water, as can happen when using up-flow regeneration.

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.

Basic Features:

Application	For counterflow operation
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		0.65 - 0.85 mm
Uniformity Coefficient (max.)		1.50
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

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Temp Limit	Cl ⁻	100 °C
Temp Limit	Cl ⁻	212 °F
pH Limits		0 - 14 (Stability)

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