

Gel Type II Strong Base Anion Exchange Resin

Purolite A200 is a clear gel-type strong-base anion exchanger containing Type-II quaternary ammonium groups. It has excellent operating capacity and good kinetics even when regenerant levels are comparatively low. It also rinses very efficiently after regeneration. It shows good resistance to physical and osmotic shock in normal operation. It is particularly useful in treating feed-waters with a high proportion of Free Mineral Acidity, and in addition it has high reversible sorptive capacity for the complex organic materials, both ionised and un-ionised, which occur in many surface water supplies. Specially tailored size grades may be used with excellent results in most of the usual ion-exchange column configurations, but they are particularly suitable for deionizing waters in counter-flow operation, where, rinse volumes represent a marked improvement over those of the classical Type-II, Purolite A300, for example. In a conventional two-stage deionizing plant, its silica-removal properties are comparable with those of any premium Type-II 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. Like all type-II resins, it is not recommended to expose the hydroxide form of the resin to temperatures above 40° C. This results in gradual loss of strong base functionality.

**Basic Features:**

Application	Demineralization with High Regeneration Efficiency
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Type 2 Quaternary Ammonium
Ionic form as shipped	Cl <sup>-</sup>

**Typical Physical and Chemical Characteristics:**

Total Capacity (min.)	Cl <sup>-</sup>	1.30 eq/l
Total Capacity (min.)	Cl <sup>-</sup>	28.38 kGr/ft <sup>3</sup>
Moisture Retention	Cl <sup>-</sup>	45-51 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Cl <sup>-</sup> → OH <sup>-</sup>	15 %
Specific Gravity		1.08 g/ml
Shipping Weight (approx.)		680-710 g/l
Shipping Weight (approx.)		42.5-44.4 lbs/ft <sup>3</sup>
Temp Limit	OH <sup>-</sup>	35 °C

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Temp Limit	OH <sup>-</sup>	104 °F
Temp Limit	Cl <sup>-</sup>	85 °C
Temp Limit	Cl <sup>-</sup>	185 °F
pH Limits		0-14 (Stability)
pH Limits	OH <sup>-</sup>	1-10 (Operating)

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