

Gel Type I Strong Base Anion Exchange Resin

Purofine PFA600OH is a type I strong base anion exchange resin which because of its Special Narrow Size Distribution has High Operating Capacity particularly at lower regeneration levels, where the effect of its Superior Regeneration Efficiency is most marked. It is also relatively less susceptible to organic fouling than are standard gel-type strong base anion resins. Consequently higher purity treatment waters can generally be obtained. The High Operating Capacity may be used to obtain longer runs and higher throughputs, which can also be realized where small or shallow resin beds are required. These significant advantages result from improved optimum rates of ion exchange loading and regeneration. Hence operation at high flow rates which are normally detrimental to the performance of conventional anion exchange resins is perfectly satisfactory. Thus useful economies may be made both in operating and capital costs.

**Basic Features:**

Application	Regeneration Efficient Demineralization - Uniformly Sized
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Type 1 Quaternary Ammonium
Ionic form as shipped	OH <sup>-</sup>

**Typical Physical and Chemical Characteristics:**

Total Capacity (min.)	Cl <sup>-</sup>	1.40 eq/l
Total Capacity (min.)	Cl <sup>-</sup>	30.57 kGr/ft <sup>3</sup>
Moisture Retention	Cl <sup>-</sup>	43-48 %
Mean Size Typical		0.52-0.62 mm
Uniformity Coefficient (max.)		1.20
Reversible Swelling (max.)	Cl <sup>-</sup> → OH <sup>-</sup>	20 %
Specific Gravity		1.08 g/ml
Shipping Weight (approx.)		665-685 g/l
Shipping Weight (approx.)		41.6-42.8 lbs/ft <sup>3</sup>
Temp Limit	OH <sup>-</sup>	60 °C
Temp Limit	OH <sup>-</sup>	140 °F
Temp Limit	Cl <sup>-</sup>	100 °C
Temp Limit	Cl <sup>-</sup>	212 °F
pH Limits		0-14 (Stability)

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pH Limits                      OH<sup>-</sup>                      1-10 (Operating)

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