

Gel Type 1 Strong Base Anion Exchange Resin

Purofine[®] PFA400 is a gel-type 1 strong base anion exchange resin which because of its regeneration efficiency has particularly high operating capacity at lower regeneration levels. It is also relatively less susceptible to organic fouling than are standard gel-type strong base anion resins. Consequently higher purity treated water (or other solution) can generally be obtained. These useful advantages are obtained by way of the narrow particle size distribution. This increased capacity may be used to obtain longer runs, higher throughput and/or smaller resin beds, as required, with improved optimum rates of ion exchange fixation and regeneration. Thus economies may be made both to operating and capital costs. As is general with the **Purofine[®]** range, operation at higher flow rates normally detrimental to performance of conventional resins is an area which offers significant advantages.

Typical Physical and Chemical Characteristics

BASIC FEATURES:

Application - Regeneration Efficient Demineralization - Uniform Particle Size

Polymer Structure - Gel polystyrene crosslinked with divinylbenzene

Appearance - Spherical beads

Functional Group - Type 1 Quaternary Ammonium

Ionic Form as Shipped - Cl⁻

PRODUCT INFORMATION:

Total Capacity, Cl ⁻ Form	1.3 eq/l (28.4 Kgr/ft ³)
Moisture Retention, Cl ⁻ Form	48 - 54 %
Uniformity Coefficient (max.)	1.2
Reversible Swelling, Cl ⁻ → OH ⁻ (max.)	20 %
Specific Gravity	1.08
Shipping Weight (approx.)	670 - 690 g/l (41.9 - 43.1 lbs/ft ³)
Temp Limit, Cl ⁻ Form	100°C (212°F)
Temp Limit, OH ⁻ Form	60°C (140°F)

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