PUROLITE
ION EXCHANGE RESINS

Product Data Sheet

PUROLITE® PFA400OH

Strong Base Anion Gel

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Gel Type I Strong Base Anion Exchange Resin

Purofine PFA400OH is a gel-type I strong base anion exchange resin supplied in the hydroxide form, 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.

Basic Features:

Application	Regeneration Efficient Demineralization - Uniformily Sized
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Type 1 Quaternary Ammonium
Ionic form as shipped	OH^-

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Cl^-	1.30 eq/l
Total Capacity (min.)	Cl^-	28.38 kGr/ft^3
Moisture Retention	Cl^-	48-54 %
Mean Size Typical		0.52-0.62 mm
Uniformity Coefficient (max.)		1.20
Reversible Swelling (max.)	$Cl^- \rightarrow OH^-$	20 %
Specific Gravity		1.07 g/ml
Shipping Weight (approx.)		655-675 g/l
Shipping Weight (approx.)		40.9-42.2 lbs/ft^3
Temp Limit	OH^-	60 °C
Temp Limit	OH^-	140 °F
Temp Limit	Cl^-	100 °C
Temp Limit	Cl^-	212 °F
pH Limits		0-14 (Stability)

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pH Limits	OH^-	1-10 (Operating)

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