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Product Data Sheet

PUROLITE® PFA300

Strong Base Anion Gel

Gel Type II Strong Base Anion Exchange Resin

Purofine PFA300 is a gel-type II strong base anion exchange resin which because of its special narrow size distribution has particularly high operating capacity at lower regeneration levels, where its superior regeneration efficiency is most marked. It is the resin of choice where the water to be treated contains a high proportion of mineral acids (as opposed to silica). 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, and rinse volumes, and hence rinse times are considerably reduced. However normal care should be taken that the maximum temperature of operation and regeneration applicable to type II resins (given below) is not exceeded. The increased capacity which is available 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. Thus economies may be made both to operating and capital costs.

Basic Features:

Application	Regeneration Efficient Demineralization - Uniformily Sized
Polymer Structure	Gel 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^-	1.40 eq/l
Total Capacity (min.)	Cl^-	30.57 kGr/ft^3
Moisture Retention	Cl^-	40-45 %
Mean Size Typical		0.52-0.62 mm
Uniformity Coefficient (max.)		1.20
Reversible Swelling (max.)	$Cl^- \rightarrow OH^-$	10 %
Specific Gravity		1.09 g/ml
Shipping Weight (approx.)		675-700 g/l
Shipping Weight (approx.)		42.2-43.8 lbs/ft^3
Temp Limit	OH^-	35 °C
Temp Limit	OH^-	104 °F
Temp Limit	Cl^-	85 °C
Temp Limit	Cl^-	185 °F

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pH Limits		0-14 (Stability)
pH Limits	OH^-	1-10 (Operating)

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