PUROLITE
ION EXCHANGE RESINS

Product Data Sheet

PUROLITE® A100

Weak Base Anion Macroporous

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Macroporous Weak Base Anion Exchange Resin

Purolite A100 is a macroporous polystyrenic weak base anion resin having tertiary amine functionality. Purolite A100 is designed to exhibit high operating capacity in removing strong acids formed after decationizing water through a strong acid cation resin like Purolite C100H. Because of its special porosity characteristics Purolite A100 shows excellent properties for removal of naturally occurring organic species from waters along with superior elution efficiency of the organics during regeneration. Purolite A100 also shows excellent resistance to osmotic shock as well as being physically resistant to mechanical breakage. Regeneration with caustic soda requires only 125% of the stoichiometric equivalent when related to the ionic loading on the resin at the exhaustion point. The rinse characteristics are good and minimum volumes of decationized water are required to rinse down to a conductivity of 50 µS/cm.

Basic Features:

Application	Demineralization - Resistant to Organic Fouling
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Tertiary Amine
Ionic form as shipped	Free Base

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Free Base	1.30 eq/l
Total Capacity (min.)	Free Base	28.38 kGr/ft^3
Moisture Retention	Cl^-	53-60 %
SBC		10-20 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	FB → Cl^-	20 %
Specific Gravity		1.04 g/ml
Shipping Weight (approx.)		655-685 g/l
Shipping Weight (approx.)		40.9-42.8 lbs/ft^3
Temp Limit	OH^-	60 °C
Temp Limit	OH^-	140 °F
Temp Limit	Cl^-	100 °C
Temp Limit	Cl^-	212 °F

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pH Limits		0-14 (Stability)
pH Limits	H^+	0-9 (Operating)

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