

# Purolite® A100Plus

Macroporous Weak Base Anion Exchange Resin

## PRODUCT DATA SHEET

**Purolite A100Plus** is a macroporous polystyrenic weak base anion resin having tertiary amine functionality. It 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 A100Plus** shows excellent properties for removal of naturally occurring organic species from waters along with superior elution efficiency of the organics during regeneration. **Purolite A100Plus** 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.

### Typical Physical and Chemical Characteristics

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
Total Capacity (min.)	1.3 eq/l (28.4 Kgr/ft <sup>3</sup> ) (Free Base form)
Moisture Retention	53 - 62 % (Cl <sup>-</sup> form)
Particle Size Range	300 - 1200 µm
<300 µm (max.)	1 %
Uniformity Coefficient (max.)	1.7
Reversible Swelling, FB → Cl <sup>-</sup> (max.)	25 %
Specific Gravity	1.04
Shipping Weight (approx.)	655 - 685 g/l (40.9 - 42.8 lb/ft <sup>3</sup> )
Temp Limit, Cl <sup>-</sup> Form	100°C (212°F)
Temp Limit, Free Base Form	60°C (140°F)



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