

A-300

Strong Base Type 2 (Clear Gel) Anion Exchange Resin
(FOR REGENERATION-EFFICIENT DEMINERALISATION)

Technical Data

PRODUCT DESCRIPTION

Purolite A-300 is a gel-type 2 strong base anion exchange resin with an outstanding operating capacity, on account of its high total capacity and good regeneration efficiency. **Purolite A-300** removes all anions typically found in natural water supplies, including silica and carbon dioxide. However it operates best following a strong acid cation resin in two stage demineralisation when treating waters with a high percentage of mineral acids (FMA), which have been liberated by the cation exchange. Its uniform clear gel structure ensures that rinse volumes can be kept to a minimum. These characteristics are especially useful in counter-flow regeneration systems, where rinse times, using treated rinse-water recycle, are extremely low for a type II resin, and treated water quality obtainable is excellent, even at relatively low regeneration levels. Normal care should be taken that the maximum temperature of operation and regeneration applicable to type II resins (given below) is not exceeded.

Purolite A-300 has excellent physical stability which ensures longer life, without the development of excessive pressure drop.

Typical Chemical and Physical Characteristics

Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Groups	R-(CH ₃) ₂ (C ₂ H ₄ OH)N ⁺
Ionic Form - as shipped	Chloride - Cl ⁻
Total Capacity (Cl form) min	1.4 eq/l
Moisture Retention (Cl form)	40-45%
Bead Size Range (micron)	+1200 <5%, -300 <1%
(U.S. Standard Screen)	16-50 mesh
Reversible Swelling (Cl → OH)	10% max
Specific Gravity (Cl form)	1.09
Shipping Weight	700 kg/m ³ [44 lb/ft ³]
Temperature Limit (OH form)	40°C (104°F)
(Cl Form)	100°C (212°F)
pH Limits	None