Purolite[®] A520E

Macroporous Strong Base Anion Exchange Resin

PRODUCT DATA SHEET

Purolite A520E is a macroporous strong base anion resin which is specially designed for the removal of nitrates from water for potable processes. The macroporous matrix and special ion exchange group functionality imparts ideal nitrate selectivity to **Purolite A520E** making this resin particularly suitable for nitrate removal even when moderate to high concentrations of sulphate are present. Hence this resin gives superior performance in nitrate removal applications when compared with standard exchange resins. A requirement of the nitrate removal process is to produce potable water meeting the quality standard defined by the European Economic Community in the Directive No. 80/778 of July 1980. This directive limits the nitrates to a maximum admissable concentration (M.A.C.) of 50 mg/l as NO3. The U.S.A. drinking water regulations limit nitrates to 10 mg/l as N (45 mg/l asNO3).

Application	Nitrate Removal
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Type I Quaternary Ammonium
Ionic Form as Shipped	СГ
Total Capacity (min.)	0.9 eq/l (19.7 Kgr/ft ³) (Cl ⁻ form)
Moisture Retention	50 - 56 % (Cl ⁻ form)
Particle Size Range	300 - 1200 μm
<300 µm (max.)	1 %
Uniformity Coefficient (max.)	1.7
Specific Gravity	1.07
Shipping Weight (approx.)	675 - 705 g/l (42.2 - 44.1 lb/ft ³)
Temp Limit, Cl ⁻ Form	100°C (212°F)

Typical Physical and Chemical Characteristics



Americas T +1 610.668.9090 F +1 484.384.2751 americas@purolite.com

Europe T +44 1443 229334 F +44 1443 227073 europe@purolite.com

Asia Pacific

T +86 571 876 31382 F +86 571 876 31385 asiapacific@purolite.com