

Product Data Sheet

PUROLITE® A520E

Strong Base Anion Macroporous

Macroporous Strong Base Anion Exchange Resin

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 NO3/I. The U.S.A. drinking water regulations limit nitrates to 45 mg NO3/I.

Basic Features:

Application Nitrate Removal

Polymer Structure Macroporous polystyrene crosslinked with divinylbenzene

Appearance Spherical beads

Functional Group Type 1 Quaternary Ammonium

Ionic form as shipped CI

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Cl	0.90 eq/l
Total Capacity (min.)	Cl	19.65 kGr/ft ³
Moisture Retention	Cl	50-56 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Specific Gravity		1.07 g/ml
Shipping Weight (approx.)		675-705 g/l
Temp Limit	CI	100 °C
Temp Limit	CI	212 °F
pH Limits		0-14 (Stability)
pH Limits	CI ⁻	4.5-8.5 (Operating)

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