

Product Data Sheet

PUROLITE® A500PS

Strong Base Anion Macroporous

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Macroporous Type I Strong Base Anion Exchange Resi

Purolite A500P S is a macroporous poly(vinylbenzyl-trimethylammonium) exchanger which has been designed for use in the decolorization of sugar syrups. This type of anion-exchange resin has good thermal stability in most salt forms together with excellent resistance to osmotic shock, and high sorptive capacity for the complex colouring materials, both ionised and unionised, which occur in sugar syrups. It is used in conventional column equipment, and may either replace or be used as an adjunct to the traditional carbon adsorbents. The resin is used in the chloride salt form, and can remove 85-90% of the colour from concentrated syrups at the elevated temperatures at which these are normally handled. Regeneration, using 10% NaCl, is efficient; the incorporation of about 1% NaOH in the brine is recommended to promote the removal of the more strongly-held colour bodies and prevent the development of any acidity in the treated syrup.

Basic Features:

Application Decolorization of Sugar Solutions

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.)	CI	0.80 eq/l
Total Capacity (min.)	CI	17.50 kGr/ft ³
Moisture Retention	CI	63 - 70 %
Mean Size Typical		0.65 - 0.82 mm
Uniformity Coefficient (max.)		1.30
Reversible Swelling (max.)	$Cl^- \rightarrow OH^-$	20 %
Specific Gravity		1.04 g/ml
Shipping Weight (approx.)		655 - 685 g/l
Temp Limit	OH ⁻	65 °C
Temp Limit	OH ⁻	150 °F
Temp Limit	Cl	100 °C
Temp Limit	Cl	212 °F
pH Limits		0 - 14 (Stability)
pH Limits	Cl	5 - 10 (Operating)

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