



A-123S

Macroporous Weak-base Anion-Exchange Resin

(FOR THE DEMINERALISATION OF SUGAR SOLUTIONS)

Technical Data

PRODUCT DESCRIPTION

PuroLite A-123S is a macroporous poly(vinylbenzyl)tertiary amine exchanger of moderate porosity, specially developed for use in the demineralisation of sweetening products. It shows good swelling characteristics in combination with low strong base capacity, which inhibits generation of colour at high temperatures. Its macroporous structure results in excellent resistance to both osmotic shock and organic fouling. As a result, many of the high molecular weight colour bodies present are also removed and these colour bodies can readily be eluted during the regeneration. This can be carried out with low amounts of caustic soda, ammonia, or soda ash to give high operating capacities.

PuroLite A-123S, with its macroporous styrene-divinylbenzene matrix, not only possesses good rinse characteristics, but its high total exchange capacity ensures high ash-removal figures (often >75% of total), with significant savings in running cost thanks to its excellent regeneration efficiency.

Typical Chemical and Physical Characteristics

Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Tertiary amino
Ionic Form - as shipped	Free Base - FB
Total Capacity (Cl Form).....	1.6 eq/l min
Strong Base Capacity.....	15% max
Moisture Retention (Cl Form)	48-55%
Bead Size Range (microns)	+1000<5 %, -425 <2%
Screen Size Range (U.S. Standard Screen)	18-40 mesh, wet
Reversible Swelling (FB @ Cl)	25% max
Specific Gravity (FB Form)	1.04
Shipping Weight.....	645-675 kg/m ³ (40-42 lb/ft ³)
Temperature Limit (Cl Form)	100°C (212°F)
(FB Form)	70°C (158°F)
pH Limits (Stability)	0-14
(Operating)	0-8