

**Macroporous Strong Acid Cation Exchange Resin - Low DVB**

Purolite C145S is a polystyrene macroporous strong acid cation exchanger crosslinked with divinylbenzene, supplied in the sodium form. The unique porous structure gives high regeneration efficiency which under particular conditions of operation, can result in lower cation leakage values than the more usual higher crosslinked macroporous resins. Purolite C145S is very resistant to osmotic shocks and is capable of operating under relatively severe conditions such as in treatment of oxidising solutions or highly concentrated sugar or glucose solutions where good kinetics are more important than total capacity. The higher moisture content results in a lower total capacity than that for Purolite C150. However, the homogeneous structure ensures good operating performance when treating solutions containing inorganic salts, including those of high molecular weight, and also those solutions containing nitrogenous compounds such as high molecular weight amines. Its special matrix with its high porosity ensures excellent reversible removal of colloids, suspended solids, and any cations of higher molecular weight.

**Basic Features:**

Application	Sugar Solutions
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic acid
Ionic form as shipped	Na <sup>+</sup>

**Typical Physical and Chemical Characteristics:**

Total Capacity (min.)	Na <sup>+</sup>	1.50 eq/l
Total Capacity (min.)	Na <sup>+</sup>	32.75 kGr/ft <sup>3</sup>
Moisture Retention	Na <sup>+</sup>	55-60 %
Mean Size Typical		0.65-0.90 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Na <sup>+</sup> → H <sup>+</sup>	6 %
Specific Gravity		1.22 g/ml
Shipping Weight (approx.)		770-805 g/l
Shipping Weight (approx.)		48.1-50.3 lbs/ft <sup>3</sup>
Temp Limit	H <sup>+</sup>	120 °C
Temp Limit	H <sup>+</sup>	250 °F

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Temp Limit	Na <sup>+</sup>	140 °C
Temp Limit	Na <sup>+</sup>	285 °F
pH Limits		0-14

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