

Macroporous Strong Acid Cation Exchange Resin - Low DVB

Purolite C145 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 C145 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:

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|-----------------------|---|
| Application | Demineralization - Colloid Removal |
| Polymer Structure | Macroporous polystyrene crosslinked with divinylbenzene |
| Appearance | Spherical beads |
| Functional Group | Sulphonic acid |
| Ionic form as shipped | Na ⁺ |

Typical Physical and Chemical Characteristics:

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|-------------------------------|----------------------------------|-------------------------------|
| Total Capacity (min.) | Na ⁺ | 1.50 eq/l |
| Total Capacity (min.) | Na ⁺ | 32.75 kGr/ft ³ |
| Moisture Retention | Na ⁺ | 55-60 % |
| Mean Size Typical | | 0.60-0.85 mm |
| Uniformity Coefficient (max.) | | 1.70 |
| Reversible Swelling (max.) | Na ⁺ → H ⁺ | 6 % |
| Specific Gravity | | 1.22 g/ml |
| Shipping Weight (approx.) | | 770-805 g/l |
| Shipping Weight (approx.) | | 48.1-50.3 lbs/ft ³ |
| Temp Limit | H ⁺ | 120 °C |
| Temp Limit | H ⁺ | 250 °F |

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|------------|-----------------|--------|
| Temp Limit | Na ⁺ | 140 °C |
| Temp Limit | Na ⁺ | 285 °F |
| pH Limits | | 0-14 |

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