

Macroporous Strong Acid Cation Exchange Resin

Purolite C150 is a macroporous poly(styrene sulphonate) cation-exchange resin with excellent resistance to both osmotic and thermal shock. Its special sponge-like structure permits higher rates of diffusion of most cations including those of heavy metals and amines and also positively charged organics of higher molecular weight, and facilitates their removal on regeneration. These properties of physical robustness, good regenerability, and fast kinetics of exchange make it ideal for a range of applications. In such cases, it is the general rule that a specially graded particle size is required. Please refer to the Purolite Summary Brochure for further details of various grades available. Purolite C150 of specially tailored particle sizes find applications in mixed beds, for make-up and condensate polishing, for hydrometallurgy, for sugar treatment, and demineralisation of numerous organic solutions to name but a few. With the macroporous Purolite C150, continuous softening of sugar solutions by the Asahi process is feasible. Here, no gel resin is normally recommended because of the extra osmotic and mechanical stresses imposed by the external regeneration of the resin and its subsequent return to service.

Basic Features:

Application	Condensates & Special Applications - Resistant to Osmotic Shock
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic acid
Ionic form as shipped	Na ⁺

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Na ⁺	1.80 eq/l
Total Capacity (min.)	Na ⁺	39.30 kGr/ft ³
Moisture Retention	Na ⁺	48-53 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Na ⁺ → H ⁺	4 %
Specific Gravity		1.25 g/ml
Shipping Weight (approx.)		785-825 g/l
Shipping Weight (approx.)		49.1-51.6 lbs/ft ³
Temp Limit	H ⁺	120 °C

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Temp Limit	H ⁺	250 °F
Temp Limit	Na ⁺	140 °C
Temp Limit	Na ⁺	285 °F
pH Limits		0-14

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