

Macroporous Strong Acid Cation Exchange Resin

Purolite C150TLH is a macroporous poly(styrene sulphonate) cation-exchange resin designed especially for certain counter-flow regeneration systems and for polishing of high purity in single vessels or mixed beds. It has 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 are combined with a specially tailored particle size range and make it especially suitable for producing high purity decationised water in packed bed counter-flow systems or in polishing to remove traces of residual sodium after counter-flow demineralisation. It is also recommended for condensate polishing applications.

Purolite C150TLH is also suitable for many special applications, for hydrometallurgy, for sugar treatment, and for demineralisation of numerous organic solutions to name but a few.

Basic Features:

Application	Demineralization - Counter Flow / Polishing
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic acid
Ionic form as shipped	H ⁺

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Na ⁺	1.80 eq/l
Total Capacity (min.)	Na ⁺	39.30 kGr/ft ³
Moisture Retention	H ⁺	54-59 %
Mean Size Typical		0.90-1.10 mm
Uniformity Coefficient (max.)		1.30
Reversible Swelling (max.)	Na ⁺ → H ⁺	4 %
Specific Gravity		1.18 g/ml
Shipping Weight (approx.)		740-765 g/l
Shipping Weight (approx.)		46.3-47.8 lbs/ft ³
Temp Limit	H ⁺	120 °C
Temp Limit	H ⁺	250 °F
Temp Limit	Na ⁺	140 °C

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

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