

Macroporous Strong Acid Cation Exchange Resin

Purolite C150H is a macroporous poly(styrene sulphonate) cation-exchange resin supplied in the hydrogen (regenerated) form designed for the use in demineralisation of water. 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. Purolite C150H is also suitable for many special applications, for hydrometallurgy and for demineralisation of numerous organic solutions to name but a few. Specially tailored particle size gradings are available for certain applications.

**Basic Features:**

Application	Demineralization - Resistant to Thermal & Osmotic Shock
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic acid
Ionic form as shipped	H <sup>+</sup>

**Typical Physical and Chemical Characteristics:**

Total Capacity (min.)	Na <sup>+</sup>	1.80 eq/l
Total Capacity (min.)	Na <sup>+</sup>	39.30 kGr/ft <sup>3</sup>
Moisture Retention	H <sup>+</sup>	54-59 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Na <sup>+</sup> → H <sup>+</sup>	4 %
Specific Gravity		1.18 g/ml
Shipping Weight (approx.)		740-775 g/l
Shipping Weight (approx.)		46.3-48.4 lbs/ft <sup>3</sup>
Temp Limit	H <sup>+</sup>	120 °C
Temp Limit	H <sup>+</sup>	250 °F
Temp Limit	Na <sup>+</sup>	140 °C
Temp Limit	Na <sup>+</sup>	285 °F
pH Limits		0-14

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