

Macroporous Strong Acid Cation Exchange Resin

Purolite PPC150S is a macroporous poly(styrene sulphonate) cation-exchange resin with excellent resistance to both osmotic and thermal shock. It is a specially produced, premium grade, narrow particle size distribution, strong acid cation exchange resin. **Purolite PPC150S** was especially developed for the Puropack upflow packed bed system, but is generally suitable for use in all coflow and counterflow demineralization systems. It has a specially tailored size grading which provides for economical regeneration and low pressure drop.

Purolite PPC150S has a sponge-like structure which permits higher rates of diffusion of the often complex nitrogenous impurities taken up by strong acid cation resins during demineralization of aqueous solutions containing organics and facilitates their removal upon regeneration. **Purolite PPC150S** is also recommended for the removal of amines from sugar or alcohol solutions.

Basic Features:

Application	Sugar Grade Resin - Counter Flow - Narrow Size Grading
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 - 0.70 mm
Uniformity Coefficient (max.)		1.20
Reversible Swelling (max.)	Na ⁺ → H ⁺	4 %
Specific Gravity		1.25 g/ml
Shipping Weight (approx.)		770 - 810 g/l
Shipping Weight (approx.)		48.4 - 50.6 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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