

Macroporous Strong Acid Cation Exchange Resin

Purolite PFC150S is a macroporous poly(styrene sulphonate) cation-exchange resin with excellent resistance to both osmotic and thermal shock. **Purolite PFC150S** is a specially produced, premium grade, narrow particle size distribution, strong acid cation exchange resin. It has a specially tailored size grading which provides for economical regeneration and low pressure drop. Its sponge-like structure 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 PFC150S is highly suited for demineralization of sugar solutions. It is also recommended for the removal of amines from sugar or alcohol solutions.

Basic Features:

Application	Sugar Grade Resin - Uniformly Sized
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		0.52 - 0.62 mm
Uniformity Coefficient (max.)		1.20
Reversible Swelling (max.)	Na ⁺ → H ⁺	4 %
Specific Gravity		1.25 g/ml
Shipping Weight (approx.)		775 - 800 g/l
Shipping Weight (approx.)		48.4 - 50 lbs/ft ³
Temp Limit	H ⁺	120 °C
Temp Limit	H ⁺	250 °F
Temp Limit	Na ⁺	140 °C
Temp Limit	Na ⁺	285 °F

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pH Limits

0 - 14

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