

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:

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|-----------------------|---|
| 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:

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|-------------------------------|----------------------------------|---------------------------------|
| 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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