

Gel Type Strong Acid Cation Exchange Resin

Purolite C100 is supplied in the sodium form and it is primarily used in coflow regenerated industrial softening or when regenerated with mineral acids (hydrochloric or sulphuric acids) as the cation resin in demineralisation plants used in industrial water treatment. This premium gel product has been optimised to give a high working capacity and good kinetic performance across a wide range of operating conditions while offering excellent chemical and physical stability.

This product is also available in special grades which offer improved performance in both coflow regenerated plant and in a wide range of counterflow regenerated systems. Special grades are also available for use in other cation resin applications. The expected performance is demonstrated in the Purolite PureDesign Programme and this product is also available in the hydrogen form as Purolite C100H.

Basic Features:

Application	Standard premium gel cation for demineralization and softening applications
Polymer Structure	Gel 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 ⁺	2 eq/l
Total Capacity (min.)	Na ⁺	43.67 kGr/ft ³
Moisture Retention	Na ⁺	44-48 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Na ⁺ → H ⁺	8 %
Specific Gravity		1.29 g/ml
Shipping Weight (approx.)		805-845 g/l
Shipping Weight (approx.)		50.3-52.8 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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