

Gel Type Strong Acid Cation Exchange Resin

Purolite C100H is primarily used in the cation stage of demineralisation plants used in industrial water treatment employing coflow regeneration. This premium gel product, supplied in the regenerated hydrogen form and has been optimised to give a high working capacity and good kinetic performance across a wide range of operating conditions. It can be regenerated with mineral acids and commonly either hydrochloric acid or sulphuric acid is employed. The performance can be improved by increasing the amount of acid applied.

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 as well as for use in layered beds, polishing mixed beds and other special applications. The expected performance is demonstrated in the Purolite PureDesign Programme and this product is also available in the sodium form as Purolite C100.

**Basic Features:**

Application	Hydrogen form of C100 for demineralization cation units
Polymer Structure	Gel 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>	2 eq/l
Total Capacity (min.)	Na <sup>+</sup>	43.67 kGr/ft <sup>3</sup>
Moisture Retention	H <sup>+</sup>	51-55 %
Mean Size Typical		0.60-0.85 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Na <sup>+</sup> → H <sup>+</sup>	8 %
Specific Gravity		1.20 g/ml
Shipping Weight (approx.)		755-790 g/l
Shipping Weight (approx.)		47.2-49.4 lbs/ft <sup>3</sup>
Temp Limit	H <sup>+</sup>	120 °C
Temp Limit	H <sup>+</sup>	250 °F

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Temp Limit	Na <sup>+</sup>	140 °C
Temp Limit	Na <sup>+</sup>	285 °F
pH Limits		0-14

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