

Gel Type Strong Acid Cation Exchange Resin

Purolite C100DL H is a premium grade gel strong acid cation exchange resin and is the standard choice for industrial softening systems. The product has superior physical strength with a high breaking weight and is extremely resistant to osmotic shock attrition. These properties will provide long and consistent performance. The operating capacity is high and this results in low regeneration costs and optimum overall efficiency. In certain instances Purolite C100DL H is bought for use in demineralisation plants and before use converted to the hydrogen form. In these instances reference should be made to the Purolite C100H bulletin for operating data. The availability of various bead size gradings allows Engineering Companies to select the correct grade in order to optimise plant performance. This choice gives improvement in capacity, rinse volumes, and pressure drops.

Basic Features:

Application	Demineralization - Layered Beds ; hydrogen form
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic acid
Ionic form as shipped	H ⁺

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Na ⁺	2 eq/l
Total Capacity (min.)	Na ⁺	43.67 kGr/ft ³
Moisture Retention	H ⁺	51-55 %
Mean Size Typical		0.85-1.00 mm
Uniformity Coefficient (max.)		1.40
Reversible Swelling (max.)	Na ⁺ → H ⁺	8 %
Specific Gravity		1.20 g/ml
Shipping Weight (approx.)		755-780 g/l
Shipping Weight (approx.)		47.2-48.8 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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