

### Gel Type Strong Acid Cation Exchange Resin

Purolite C100DL 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 C100C 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 as shown in Table 2 allows Engineering Companies to select the correct grade in order to optimize plant performance. This choice gives improvement in capacity, rinse volumes, and pressure drops.

### Basic Features:

Application	Coarse grade version of C100 used in Layered Beds applications
Polymer Structure	Gel polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic acid
Ionic form as shipped	Na <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	Na <sup>+</sup>	44-48 %
Mean Size Typical		0.85-1.00 mm
Uniformity Coefficient (max.)		1.40
Reversible Swelling (max.)	Na <sup>+</sup> → H <sup>+</sup>	8 %
Specific Gravity		1.29 g/ml
Shipping Weight (approx.)		805-830 g/l
Shipping Weight (approx.)		50.3-51.9 lbs/ft <sup>3</sup>
Temp Limit	H <sup>+</sup>	120 °C
Temp Limit	H <sup>+</sup>	250 °F
Temp Limit	Na <sup>+</sup>	140 °C
Temp Limit	Na <sup>+</sup>	285 °F
pH Limits		0-14

**USA**  
Telephone: (1) 610-668-9090  
Fax: (1) 610-668-8139  
Email: info@puroliteusa.com

**Europe**  
Telephone: +44 1443 229334  
Fax: +44 1443 227073  
Email: sales@purolite.com

**Asia Pacific**  
Telephone: +86 571 876 31385  
Fax: +86 571 876 31385  
Email: pultalan@purolitechina.com