

#### Gel Type Strong Acid Cation Exchange Resin

Purolite® C100ELT is a high capacity premium bead form, conventional gel polystyrene sulphonate cation exchange resin, designed for use in industrial or house hold water conditioning equipment. It removes the hardness ions, e.g. calcium and magnesium, replacing them with sodium ions. When the resin bed is exhausted and hardness ions begin to break through, capacity is restored by regeneration with common salt. The capacity obtained depends largely on the amount of salt used in the regeneration. Purolite® C100ELT is also capable of removing dissolved iron, manganese, and also suspended matter by virtue of the filtering action of the bed.

#### Basic Features:

|                       |   |
|-----------------------|---|
| Application           | Softening of Water - Light colored beads as C100E |
| Polymer Structure     | Gel polystyrene crosslinked with divinylbenzene   |
| Appearance            | Spherical beads - light colour                    |
| Functional Group      | Sulphonic acid                                    |
| Ionic form as shipped | Na <sup>+</sup>                                   |

#### Typical Physical and Chemical Characteristics:

|                               |  |                             |
|-------------------------------|--|-----------------------------|
| Total Capacity (min.)         | Na <sup>+</sup>                                | 1.90 eq/l                   |
| Total Capacity (min.)         | Na <sup>+</sup>                                | 41.48 kGr/ft <sup>3</sup>   |
| Moisture Retention            | Na <sup>+</sup>                                | 46-50 %                     |
| Mean Size Typical             |  | 0.60-0.85 mm                |
| Uniformity Coefficient (max.) |  | 1.70                        |
| Reversible Swelling (max.)    | Na <sup>+</sup> → H <sup>+</sup>               | 10 %                        |
| Reversible Swelling (max.)    | Ca <sub>2</sub> <sup>+</sup> → Na <sup>+</sup> | 8 %                         |
| Specific Gravity              |  | 1.27 g/ml                   |
| Shipping Weight (approx.)     |  | 800-840 g/l                 |
| Shipping Weight (approx.)     |  | 50-52.5 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                      |

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pH Limits

0-14

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