



Softening Ion Exchange Resin



- HG-C100 (& C100E) a conventional gel-type cation exchange resin for the removal of hardness ions to prevent scale build-up.
- Ion exchange reduces the hardness by replacing magnesium and calcium ions with sodium or potassium ions. The resin is regenerated by washing it with a salt solution.
- In domestic applications a low level of hardness can be permitted. In industrial applications, particularly boilers, total hardness has to be removed.

Features:

- Good selectivity
- Good thermo-tolerant characteristics
- Excellent physical and chemical stability
- High exchange capacity
- High mechanical strength
- Uniform particle size with good hydraulic characteristics

Specifications:

Polymer structure	Gel polystyrene crosslinked with divinylbenzene
Functional group	HSO ₃ ⁻
Appearance	Spherical light brown bead
Ionic form	Na ⁺ type
Total exchange capacity	≥4.5 mmol/g (dry) (Na ⁺ type)
Total exchange capacity	≥1.9 mmol/ml (Na ⁺ type)
Moisture content	46-50% (Na ⁺ type)
Density	1.25 - 1.29 g/ml (Na ⁺ type)
Shipping weight	0.77 - 0.87 g/ml (Na ⁺ type)
Particle size	0.315 - 1.25 mm ≥95%, <0.315mm ≤1%
Effective particle size	0.40 - 0.60 mm
Uniformity coefficient	≤ 1.7
Attrition rate	≥ 90%
Swelling	≤ 10% Na ⁺ - H ⁺