

Purolite C100x10H is a gel polystyrenic strong acid cation exchange resin that can be used either in demineralization (where high chlorine levels are prevalent), in mixed bed demineralization (for better separation due to the higher density than the standard resin, C100H, in dealkalization, or in condensate polishing (where a more rugged physical structure is needed). The resin is crosslinked with styrene and divinylbenzene polymers and classified as a 10% crosslinked resin. It has outstanding resistance to bead fracture from mechanical attrition or osmotic shock and offers a minimum of pressure drop across the bed. C100x10HSC has average whole clear bead count of 95% minimum with a bead strength averaging over 350 grams. C-100x10H can be regenerated with either sulfuric acid or hydrochloric acid to operate in the hydrogen form and with sodium chloride (salt-brine) to operate in the sodium form.

Basic Features:

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| Application | Hydrogen form of C100x10: 10% Crosslinked DVB |
| Polymer Structure | Gelular, styrene/divinylbenzene |
| Appearance | Hard spherical beads |
| Functional Group | R-SO ₃ |
| Ionic form as shipped | Hydrogen |

Typical Physical and Chemical Characteristics:

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|----------------------------|----------------------------------|------------------------|
| Total Capacity (min.) | H ⁺ | 2.00 eq/l |
| Moisture Retention | H ⁺ | 44 - 50 % |
| Reversible Swelling (max.) | Na ⁺ → H ⁺ | 5 % |
| Shipping Weight (approx.) | | 865 g/l |
| Shipping Weight (approx.) | | 52 lbs/ft ³ |
| Temp Limit | H ⁺ | 150 °C |
| Temp Limit | H ⁺ | 300 °F |
| pH Limits | | 0 - 14 |