

# C-100H

Strong Acid Cation-Exchange Resin  
(FOR USE IN DEMINERALISATION OF WATER)

## Technical Data

### PRODUCT DESCRIPTION

**Purolite C-100H** is a premium high purity grade of conventional gel poly(styrene sulphonate) cation-exchange resin supplied in the hydrogen form. It is used for the demineralisation of water. Its high bead integrity, excellent chemical and physical stability play a large part in its successful employment in these areas.

The characteristics of **Purolite C-100H** ensure good diffusion characteristics during regeneration, consistent pressure drop within recommended limits of flow rate, and consistent treated water quality, according to the conditions of operation.

### Typical Chemical and Physical Characteristics

Polymer Structure .....	Gel polystyrene crosslinked with divinylbenzene
Appearance .....	Spherical beads
Functional Group .....	Sulphonic acid
Ionic Form - as shipped .....	Hydrogen - H <sup>+</sup>
Total Capacity (H <sup>+</sup> Form) min .....	1.8 eq/l
Moisture Retention (H <sup>+</sup> form) .....	51-55%
Bead Size Range (microns) .....	+1200 <5%, -300 <1%
Screen Size Range (U.S. Standard Screen) .....	16-50 mesh, wet
Reversible Swelling (Na <sup>+</sup> → H <sup>+</sup> ) .....	8% max
Specific Gravity (H <sup>+</sup> Form) .....	1.20
Shipping Weight .....	755-790 kg/m <sup>3</sup> (47-49.5 lb/ft <sup>3</sup> )
Temperature Limit (Na <sup>+</sup> Form) .....	140°C (285°F)
(H <sup>+</sup> Form) .....	120°C (250°F)
pH Limits .....	None