JUN 99

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^+**
Total Capacity (H^+ Form) min	**1.8 eq/l**
Moisture Retention (H^+ form)	**51-55%**
Bead Size Range (microns)	**+1200 <5%, -300 <1%**
Screen Size Range (U.S. Standard Screen)	**16-50 mesh, wet**
Reversible Swelling ($Na^+ \rightarrow H^+$)	**8% max**
Specific Gravity (H^+ Form)	**1.20**
Shipping Weight	**755-790 kg/m^3 (47-49.5 lb/ft^3)**
Temperature Limit (Na^+ Form)	**140°C (285°F)**
(H^+ Form)	**120°C (250°F)**
pH Limits	**None**