PICOPURE 650 (H)

Strong Acid Cation (Super Gel) Resin

(For Ultrapure water)

TECHNICAL DATA

PRODUCT DESCRIPTION

Purolite PICOPURE 650 is a gel type cation exchange resin with high resistance to bead fracture from both attrition and osmotic shock. Because of its specially tailored narrow particle size distribution, it has superior kinetics, higher operating capacity and produces treated water with a substantially lower sodium leakage than most other gel resins. These significant advantages are more apparent at lower regeneration levels where the effect of Superior Regeneration Efficiency is more marked. It is also relatively less susceptible to fouling by heavy metals such as iron and copper. These factors combine to produce water of a superior quality, offering special advantages when operating at high flow rates.

PICOPURE 650 in the hydrogen form is used as the cation component in ultrapure water working mixed beds together with **PICOPURE 550** as the anion component. The specially tailored particle size ensures a perfect separation of the exhausted mixed bed prior to regeneration.

Typical Physical and Chemical Characteristics	
Polymer matrix structure	Crosslinked Styrene-DVB gel
Ionic form	H^+
Functional groups	Sulfonic acid
Exchange capacity H^+ form	>2.0 meq/ml
Conversion (%)	> 99.9 H^+ form
Particle size (micron)	650
Uniformity coefficient	1.15
Water content (%) H^+ form	40- 50
Operating temperature	130°C
Shipping density (approx.)	770 - 790 g/l
Rinsing conditions	@ 30 BV/hr, Influent is minimum of 15 Megohms
Delta TOC (ppb)	< 20 within 8 hours
Na^+ (ppt)	< 0.5

Other products in the PICOPURE line	
PICOPURE 550	UPS (550 micron) Gel-Type I strong base anion resin
PICOPURE 56	Ultrapure mixed bed resin for non-regenerable mixed beds
PICOPURE 1200	Ultrapure mixed bed resin for regenerable mixed beds

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