

001×10 Styrene Series Gel Strong Acid Cation Resin

1. Description

001×10 is a premium high purity grade of conventional gel poly(styrene sulfonate) cation-exchange resin, Its chemical and physical stability, particularly its resistance to oxidation, The higher density spheres of the graded cation resin ensures good backwash separation at the recommended flow rates.

This product is analogous to :Amberlite IR-122,Dowex HGR-W2/C10, Purolite C100X10 , Diaion SK110

2. Typical Physical and Chemical Properties:

Items		Specification
Polymer Matrix Structure		Crosslinked Polystyrene Divinylbenzene
Physical Form and Appearance		Golden yellow color Spherical beads
Functional Groups		R-SO3 ⁻
Ionic Form ,as shipped		Na+
Total Capacity, Na+ form, wet, volumetric		≥2.1eq/l min
Moisture Retention, Na+ form		40-46%
Particle Size Range		0.3mm-0.6mm
<0.5mm (max.)		1%
Uniformity Coefficient (max.)		1.6
effective size		0.4-0.7mm
Reversible Swelling	Na+ \rightarrow H+ (max.)	3-5%
Shipping Weight (approx.)		820 -920g/l
Specific Gravity, moist Na+ Form		1.31
pH Range, Stability		0 - 14

3. Suggested Operating Condition

Maximum Temperature	Na+ Form	140°C (285oF) max.
	H+ Form	120°C (248oF) max.
Backwash Rate		25 to 50% Bed Expansion
Regenerant Concentration	Hydrogen Cycle	3% HCl or 2 to 3% H2SO4
	Sodium Cycle	6% to 8% NaCl or 3% NaOH
	HC1 or H2SO4	HC1 or H2SO4 volume:resin volume =3:1
Regenerant dosage	NaCl	NaCl volume:resin volume =2:1
	NaOH	NaOH volume:resin volume =3:1
Regenerant Flow Rate		2 to 4 BV/h
Regenerant contact Time		At least 40 minutes
Service Flow Rate		10-25m/h

4.Applications

This product is used in extracting of antibiotics,drug purification,water softening, preparation of pure water or high purity water and so on









