

Polymex C180 Strong Acid Polystyrene-type Cation Resin

Polymex C180 is a strong acid polystyrene-gel type cation resin.

Features:

- High exchange capacity
- High mechanical strength
- Uniform particle with good hydraulics characteristic
- Good selectivity
- Good thermo-tolerant characteristic
- Excellent physical and chemical stability

Specification:

Polymer structure	Styren-DVB
Functional group	HSO_3^-
Appearance	Light brown bead
Ionic form	Na^+ type
Total exchange capacity	≥ 4.5 mmol/g(dry) (Na^+ type)
Total exchange capacity	≥ 1.9 mmol/ml (Na^+ type)
Moisture content	46-50% (Na^+ type)
Density	1.25-1.29 g/ml (Na^+ type)
Shipping weight	0.77-0.87 g/ml (Na^+ type)
Particle size	0.315-1.25 mm $\geq 95\%$ < 0.315 mm $\leq 1\%$
Effective particle size	0.40-0.60 mm
Uniformity coefficient	≤ 1.7
Attrition rate	$\geq 90\%$
Swell, Max.	$\text{Na}^+ - \text{H}^+$ 10%

Operation Parameters:

Operating temperature, Max.	120 °C
Bed depth, Min	800 mm
Service flow rate	5-25BV*/h
Service flow rate, Max	40 m/h
Regenerant	NaCl HCl H_2SO_4
Consumption (as 100%)	80-220g/l 50-150g/l 80-240g/l
Concentration	5-10% 5-8% 0.7-6%
Flow rate	2-8 BV*/h 2-5 BV*/h 2-20 BV*/h
Contact time, Min	30 min
Slow rinse	2 BV* (Regeneration flow)
Fast rinse	4-8BV* (Service flow)
Note: 1 BV=1 m ³ media/1 m ³ resin	