

## 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**

### Specifications:

Polymer structure-----	Styren-DVB
Functional group-----	HSO3—
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 ≥95%
<0.315 mm ≤1%	
Effective particle size-----	0.40-0.60 mm
Uniformity coefficient-----	≤1.7 Attrition
rate-----	≥90%
Swell, Max.-----	Na+ - 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      H2SO4
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 m3 media/1m3 resin