

Purex C150 Strong acid polystyrene type cation resin



Purex C150 is a strong acid polystyrene gel type cation resin. It has:

- 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	≥1.8 mmol/ml (Na ⁺ type)
Moisture content	45-52% (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%
Attrition rate	≥80%
Swell, Max.	Na ⁺ - H ⁺ 10%

Recommended operation parameters:

Operating temperature, Max.	120 oC
Bed depth, Min.	800 mm
Service flow rate	5-25BV*/h
Service flow rate, Max.	40 m/h
Regenerant	--NaCl HCl H ₂ SO 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 m³ media/1m³ resin.

All above data are for your reference. Please adjust according to your equipment and operation condition.