



Technical Data

Purolex PRC-107E, PRC-108E and PRC-1010E is a premium grade gel type strong acid cation exchange resin produced by sulfonated of styrene-divinylbenzene (DVB) copolymers in standard Gaussian size distribution. It has excellent chemical & physical stability and kinetic exchange capacity. **Purolex** in sodium form is widely used for water softening to reduce total hardness. In hydrogen form, it also can be used for water demineralization.

Typical physical & chemical characteristics

NO.	ITEM	SPEC			
		PRC 107E	PRC 108E	PRC 1010E	
1	Total exchange capacity (eq/L)	Na ⁺ form	≥1.9	≥2.0	≥2.2
		H ⁺ form	≥1.8	≥1.9	≥2.0
2	Moisture retention (%)	Na ⁺ form	45-50	43-48	38-43
		H ⁺ form	51-56	48-53	43-59
3	Particle size range (%)	0.315-1.25 mm≥95	0.315-1.25 mm≥95	0.315-1.25 mm≥95	
4	Whole uncracked beads after attrition (%)	≥96	≥96	≥96	
5	Shipping weight (g/ml)	Na ⁺ form	0.77-0.87	0.78-0.88	0.80-0.88
		H ⁺ form	0.73-0.83	0.74-0.84	0.78-0.83
6	Specific gravity (g/ml)	Na ⁺ form	1.25-1.29	1.26-1.30	1.28-1.32
		H ⁺ form	1.17-1.22	1.19-1.23	1.22-1.28
7	Effective size (mm)	0.4 - 0.6	0.4 - 0.6	0.4 - 0.6	
8	Uniformity coefficient	<1.7	<1.7	<1.7	
9	Reversible swelling, Ca ²⁺ or Na ⁺ → H ⁺ (%)	<8	<8	<8	

Suggested Operating Condition

NO.	ITEM	SPEC
1	Max operating temperature	120 °C
2	PH range	0-14
3	Service flow rate	5-50 BV/h
4	Regenerant	10-15% NaCl, 4-10% HCl, 1-8% H ₂ SO ₄

Analogues

Purolex PRC-107E: Purolite C100E; Dowex HCR S/S;

Purolex PRC-108E: Lewatit S 1567; Canature 001*8

Purolex PRC-1010E: Best exchange capacity in the market

Packing



25L bag



48 bags pallet (1200 L):

110x110x100

or

54 bags pallet (1350 L):

110x110x115

CHEMSYS Office and warehouse address:
Veterinary str. 38, Biruliskes, LT-54469, Kaunas region, Lithuania