

CERTIFICATE

Purolex PRC 108E Ion Exchange Resin

UAB "Chemsys"

 Date: 21th of April 2022
 Invoice №: 2202CMSLT03
 PI №: 2202CMSLT03

1. Description

Purolex PRC108E is a high purity premium grade, high capacity, gelular, sulfonated, polystyrene cation resin supplied in the sodium or hydrogen form as moist, tough, uniform, spherical beads, Purolex PRC108E is intended for use in all water softening, dealkalization, deionization and chemical processing applications,

2. Typical Physical and Chemical Properties

Parameter

Polymer Matrix Structure	Crosslinked Polystyrene Divinylbenzene
Physical Form and Appearance	Yellow to brown spherical Particle
Functional Groups	R-SO ₃ ⁻
Ionic Form, as shipped	Na ⁺
Total Capacity, Na ⁺ form, wet, volumetric	≥ 2,0 eq/l min
Moisture Retention, Na ⁺ form	43-48%
Particle Size Range	0,3mm - 1,2mm
<300 µm (max.)	1%
Uniformity Coefficient (max.)	1,6
Effective size	0,4-0,7mm
Reversible Swelling	Na ⁺ → H ⁺ (max.)
Shipping Weight (approx.)	780 - 880g/l
Specific Gravity, moist Na ⁺ Form	1,29
Temperature Limit	120°C (250 °F)
pH Range, Stability	0 - 14

3. Suggested Operating Condition

Parameter

Maximum Temperature		120°C (248°F) max.
		100°C (212°F) max.
Backwash Rate		25 to 50% Bed Expansion
Regenerant Concentration	Hydrogen Cycle	3% HCl or 2 to 3% H ₂ SO ₄
	Sodium Cycle	6% to 8% NaCl or 3% NaOH
Regenerant dosage	HCl or H ₂ SO ₄	HCl or H ₂ SO ₄ 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

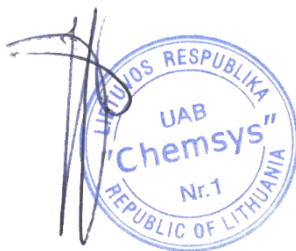
4. Application

It is used in water softening applications and Demineralization, good kinetic performance across a wide range of operating conditions while offering excellent chemical and physical stability.

5. This product is analogous to:

<i>Amberlite IR-120</i>	<i>Dowex 50</i>	<i>KY2-8</i>	<i>Diaion SK-IB</i>
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Director



Tomas Jankauskas