

PRODUCT GRADE:

C220 NA

Innovations in
ION EXCHANGE

RAXIONTM

Efficient Water Softening Resin
(Manufactured in ISO 9001 & 14001 Certified Facility)



RAXION C220NA STYRENE SERIES GEL STRONG ACID CATION EXCHANGE RESIN

DESCRIPTION

Raxion **C220NA** is a high capacity premium grade bead form conventional gel polystyrene sulphonate cation exchange resin designed for use in industrial or household water conditioning equipment. Its acidity is similar to some inorganic acids, such as sulfuric acid [H_2SO_4] and hydrochloric acid [HCl]. It can be used as ion exchanger in alkaline, neutral and acidic mediums. This product has speedy exchange ability and good physical strength.

This product is analogous to: Amberlite IR-120, Dowex-50, Lewatit-100

EXECUTING STANDARD:

GB/T 13659-2008 DL/T519-2004

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TYPICAL PHYSICAL AND CHEMICAL PROPERTIES:

Items		Specification
Polymer Matrix Structure		Crosslinked Polystyrene Divinylbenzene
Physical Form and Appearance		Yellow to Brown yellow color beads
Functional Groups		R-SO ₃ ⁻
Ionic Form ,as shipped		Na ⁺
Total Capacity, Na ⁺ form, wet, volumetric		≥1.95 eq/l min
Moisture Retention, Na ⁺ form		45–50%
Particle Size Range		0.3mm–1.2mm
<300 μm (max.)		1%
Uniformity Coefficient (max.)		1.6
effective size		0.4–0.7mm
Reversible	Na ⁺ H ⁺ (max.)	10%
Swelling	Ca ²⁺ +Na ⁺ (max.)	5%
Shipping Weight (approx.)		770 –870g/l
Specific Gravity, moist Na ⁺ Form		1.27
Temperature Limit		120°C (250 °F)
pH Range, Stability		0 – 14

SUGGESTED OPERATING CONDITION

Maximum	Na ⁺ Form	120°C (248oF) max.
Temperature	H ⁺ Form	100°C (212oF) 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
	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

APPLICATIONS

It is used in hard water softening, pure water manufacturing, hydro–metallurgy, rare elements separation, aminophenol extracting it is widely used in water treatment, sugar manufacturing, pharmacy, monosodium glutamate, hydro–metallurgy industries and so on.



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