



EPOCHEMMIE CO., LTD

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DATA SHEET

Commodity: Macroporous Weak Acid Cation Exchange Resin **Type:** C200

For use in the deionization and softening of water and aqueous organic solutions

Applications: C200 is a premium grade, weak acid, macroporous, cation resin supplied in the hydrogen form as moist, tough, uniform, spherical beads. Its ion exchange functionality is derived from the carboxylic group, which is easily converted to the hydrogen form and has a high affinity for divalent ions.

C200 is intended for use in hydrogen cycle dealkalization, deionization, and chemical processing application. C200 can also be supplied in the sodium form for use in sodium cycle applications such as softening and removal of heavy metal cations.

Product Description:

Typical physical & Chemical characteristics

Polymer Matrix Structure	Acrylic Crosslinked with DVB
Physical Form and Appearance	Macroporous spherical beads
Whole Bead Count	95% min.
Functional Groups	R-COOH
Ionic Form ,as shipped	H
Total Exchange Capacity, H ⁺ form, wet, volumetric	4.2 eq/l min.
Moisture Retention, H ⁺ form	45-52%
Particle Size Range	+1.2 mm <5%, -0.3 mm <1%
Swelling Na ⁺ → H ⁺	65% max.
Shipping Weight (approx.)	720-800 g/l
Specific Gravity, moist H ⁺ Form	1.18
PH Range, operating	4 – 14

Suggested Operating Condition

Maximum Temperature	
H ⁺ Form	120°C (250°F) max.
Minimum Bed Depth	0.7m(30inches)
Backwash Rate	50 to 75% Bed Expansion
Regenerant Concentration	
Hydrogen Cycle	1% to 4% HCl or 0.5-1.0%H ₂ SO ₄
Regenerant Flow Rate	0.3 to 0.75gpm/cu/ft.
Regenerant Contact Time	At least 30 minutes
Regenerant Level	HCl 0.5 to 1 pounds/ cu/ft.
Displacement Rinse Rate	Same as Regenerant Flow Rate
Displacement Rinse Volume	10 to 15 gallons/cu.ft.
Fast Rinse Rate	Same as Service Flow Rate
Fast Rinse Volume	35 to 60 gallons/cu.ft.
Service Flow Rate	1 to 5 gpm/cu/ft.