



EPOCHEMMIE CO., LTD

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DATA SHEET

Commodity: Strong-Base Type II (Gel) Anion Exchange Resin **Type:** A103

For Efficient Demineralization Including Silica Removal

Applications: A103 is a high capacity, gelular, Type II strongly basic anion exchange resin supplied in the chloride form as moist, tough, uniform spherical beads. It provides superior regeneration efficiency and greater resistance to organic fouling than Type I strongly basic anion exchange resins.

A103 is intended for use in all types of dealkalization, deionization and chemical processing applications

Product Descriptions

Typical physical & Chemical characteristics

Polymer Matrix Structure	Styrene Crosslinked with DVB
Physical Form and Appearance	Clear spherical beads
Whole Bead Count	95% min.
Functional Groups	R-N(CH ₃) ₂ (C ₂ H ₄ OH) ⁺
Ionic Form ,as shipped	CL
Total Exchange Capacity, CL ⁻ form, wet, volumetric	1.6 eq/l min.
Moisture Retention, CL ⁻ form	45-51%
Particle Size Range	+1.2 mm 5%max, -0.3 mm 1%max
Swelling CL ⁻ → OH ⁻	15% max
Shipping Weight (approx.)	680-760 g/l
PH Range, Stability	0 – 14
Specific gravity, moist CL ⁻ form	1.09

Suggested Operating Condition

Maximum Temperature	
OH ⁻ Form	40°C (105°F) max.
CL ⁻ Form	60°C (176°F) max.
Minimum Bed Depth	0.6m(24inches)
Backwash Rate	50 to 75% Bed Expansion
Regenerant Concentration	2 –6% NaOH
Regenerant Flow Rate	2 to 8 BV/h (0.25 to 1.0gpm/cu.ft.)
Regenerant Contact Time	At least 60 minutes
Regenerant Level	112 -300g/L (4 to 10 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	2 to 4 gpm/cu.ft.)