



EPOCHEMMIE CO., LTD

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DATA SHEET

Commodity: Strong-Base Type I (Gel) Anion Exchange Resin **Type:** A102
For Efficient Demineralisation Including Silica Removal

Applications: A102 resin is a high capacity, shock resistant, gel, Type I, strongly basic anion exchange resin supplied in the chloride or hydroxide form as moist, uniform, spherical beads. A102 is intended for use in all type of deionization systems and chemical processing applications..

Product Description

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) ₃ ⁺
Ionic Form ,as shipped	CL
Total Exchange Capacity, CL ⁻ form, wet, volumetric	1.5 eq/l min.
Moisture Retention, CL ⁻ form	42-48%
Particle Size Range	+1.2 mm <5%, -0.3 mm <1%
Swelling CL ⁻ → OH ⁻	18-25%
Shipping Weight (approx.)	670-730 g/l
Specific Gravity, moist CL ⁻ Form	1.09
PH Range, Stability	0 – 14

Suggested Operating Condition

Maximum Temperature	
OH ⁻ Form	60°C (140°F) max.
CL ⁻ Form	80°C (176°F) max.
Minimum Bed Depth	0.6m(24inches)
Backwash Rate	50 to 75% Bed Expansion
Regenerant Concentration	2 –6%
Regenerant Flow Rate	2 to 8 BV/h (0.25 to 1.0gpm/cu.ft.)
Regenerant Contact Time	At least 40 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	10-25m/h (2 to 10 gpm/cu.ft.)