EPOCHEMMIE CO., LTD

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DATA SHEET

Commodity: Strong-Base Type I (Gel) Anion Exchange Resin **Type**: A101

For Efficient Demineralibation Including Silica Removal

Applications:A101 resin is a high capacity, shock resistant, gel, Type I, strongly base anion exchange resin supplied in the chloride or hydroxide form as moist, tough, uniform, spherical beads. A101 is intended for use in all type of deionization systems and chemical processing applications and is especially suited for use in regenerable mixed beds. It also shows good kinetics of exchange, enabling very low concentration levels of both strong and weak acid anions to be achieved at practical flowrates.

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	$R\text{-}N(CH_3)_3^+$
Ionic Form ,as shipped	CL
Total Exchange Capacity, CL^- form, wet, volumetric	1.3 eq/l min.
Moisture Retention, CL^- form	48-58%
Particle Size Range	+1.2 mm <5%, -0.3 mm <1%
Swelling $CL^- \rightarrow OH^-$	20-30%
Shipping Weight (approx.)	660-710 g/l
Specific Gravity, moist CL^- Form	1.08
PH Range, Stability	0 – 14

Suggested Operating Condition

Maximum Temperature	
OH^- Form	60ºC (140ºF) max.
CL^- Form	80ºC (176ºF) 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.)