EPOCHEMMIE CO., LTD

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DATA SHEET

Commodity: **Strong-Base Type I (Gel) Acrylic Anion Exchange Resin** **Type**: A501

For Efficient Demineralization Including Silica Removal

Applications:**A501** resin is a high capacity, organic fouling resistant, granular, acrylic Type I. Strongly basic anion resin. Supplied in the chloride or hydroxide form as moist, tough, uniform spherical beads. **A501** is intended for use in all types of deionization systems and chemical process applications. Where water temperature do not exceed 40C.

Product Description:

Typical physical & Chemical characteristics

Polymer Matrix Structure	Acrylic Cross linked 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	1.2 eq/l min.
Moisture Retention, CL^- form	55-65%
Particle Size Range	+1.2 mm <5%, -0.3 mm <1%
Swelling $CL^- \rightarrow OH^-$	15-25%
Shipping Weight (approx.)	700 g/l
Specific Gravity, moist CL^- Form	1.09
PH Range, Stability	0 – 14

Suggested Operating Condition

Maximum Temperature	
OH^- Form	40ºC (95ºF) max.
CL^- Form	60ºC (140ºF) 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 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	10-25m/h (2 to 10 gpm/cu/ft.)