



EPOCHEMMIE CO., LTD

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DATA SHEET

Commodity: Strong-Base (Macro) Acrylic Anion Exchange Resin **Type:** A510

For decolorisation of organic solution and organic scavenger

Applications: A510 resin is a high capacity, organic fouling resistant, Macroporous type, Strong basic anion resin.

Supplied in the chloride or hydroxide form as moist, tough, spherical beads.

Product Description:

Typical Physical & Chemical Characteristics

| | |
|--|---|
| Polymer Matrix Structure | Acrylic 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 | 0.8 eq/l min. |
| Moisture Retention, CL ⁻ form | 65-75% |
| Particle Size Range | +1.2 mm <5%, -0.3 mm <1% |
| Effective Size(mm) | 0.40-0.60 |
| Uniformity Coefficient | ≤1.6 |
| Swelling CL ⁻ → OH ⁻ | 15-25% |
| Shipping Weight (approx.) | 650-720 g/l (40.5-45lbs/cu.ft) |
| Specific Gravity, moist CL ⁻ Form | 1.09 |
| PH Range, Stability | 0 – 14 |

Suggested Operating Condition

| | |
|---------------------------|--------------------------------------|
| Maximum Temperature | |
| OH ⁻ Form | 40°C (95°F) max. |
| CL ⁻ Form | 60°C (140°F) max. |
| Minimum Bed Depth | 0.6m(24inches) |
| Backwash Rate | 50 to 75% Bed Expansion |
| Regenerant Concentration | 2 –6% Caustic Soda (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 | 10-25m/h (2 to 10 gpm/cu.ft.) |