Resinex AB-1 Weak base anion exchange resin

Resinex[™] AB-1 is a high purity, premium grade, weakly basic macroporous anion exchange resin that is highly resistant to osmotic shock. The product has the ability to adsorb reversibly organic molecules and therefore protects strong base anion exchange resins such as Resinex[™] A-4 which follows Resinex[™] AB-1 in serials systems. Thanks to the high regeneration efficiency being close to the stoichiometric ratio, Resinex[™] AB-1 reduces the ionic load in multiple bed systems. The selected bead distribution is especially adapted for all modern counter-current systems (i.e. Schwebebett, UPCORE,..).

Typical Properties

Туре	Crosslinked polystyrene divinylbenzene
Form	macroporous, milky white, spherical beads
Functional group	Tertiary amine
Whole bead count	95% min.
lonic form, as shipped	Free base/Cl ⁻
Bead size	0.42 - 1.25 mm
Uniformity coefficient	1.60 max.
Bulk density, as shipped	680 kg/m³
Real density	1.05 g/cm ³
Water retention	50 - 58%
Total capacity	1.40 eq/l min.
Volume change FB -> Cl ⁻	20% max.
Stability, temperature	75°C max. in free base form
Stability, pH	0 - 14

Standard Design Conditions

Bed depth	> 750 mm
Service flow rate	8 - 40 BV/h
Backwash expansion	50 - 75%

Key Features and Benefits

Ion Exchange Resin

- High Integrity Beads
 Excellent resistance to mechanical
 degradation ensures low pressure drop
- Easily Regenerable
- Very Low Caustic Soda Consumption Economical advantage
- High Resistance To Osmotic Shock
 Extended lifetime and very low number of
 broken beads
- Selected Bead Size Lower pressure drop and regenerant consumption

Typical Applications

 Demineralisation in industrial water treatment systems together with Resinex[™] K-8 and Resinex[™] A-4

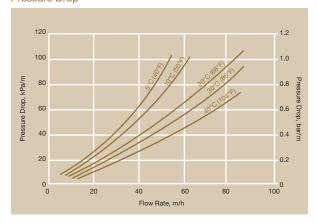
Standard Packaging

- 25 lit. PE valve bag
- 1000 litre big bag

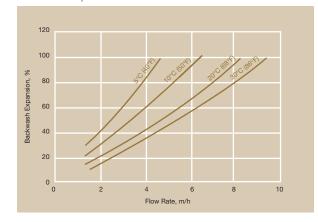




Pressure Drop



Backwash Expansion



Standard Regeneration Parameters Co-Flow Counter-Flow Concentration 3-5% NaOH 2-4% NaOH 75-90 g/l 45-60 g/l Level 4-6 BV/h 6-8 BV/h Flow rate regenerant Contact time regenerant 30-50 min. 20-40 min. 4-6 BV/h 6-8 BV/h Flow rate slow rinse Slow rinse water required 2-4 BV 2 BV Flow rate fast rinse 10-30 BV/h 10-30 BV/h 6-10 BV Fast rinse water required 6-10 BV

The use of a weak base solution such as ammonia or sodium carbonate as a regenerant is an alternative to caustic soda. Please contact your nearest Jacobi Carbons sales office for further information.

Product Packing



25 lit. polyethylene valve bag42 bags per pallet



Polypropylene FIBCs (big bag), 1.000 lit.





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