

Resinex[™] A-4

Strong base anion exchange resin

ResinexTM A-4 is a high purity, premium grade, strongly basic gel-type anion exchange resin type 1, specially designed for achieving very low silica leakage in water demineralisation applications. The product is a bead type, crosslinked polystyrene-divinylbenzene copolymer resin that offers a good resistance to physical and mechanical breakage and organic fouling. The selected bead distribution of ResinexTM A-4 is especially adapted for all modern counter-current systems (i.e. Schwebebett, UPCORE,..).

Typical Properties

Туре	Crosslinked polystyrene divinylbenzene
Form	gel-type, white, spherical beads
Functional group	Quarternary Ammonium, Type 1
Whole bead count	95% min.
lonic form, as shipped	Cl ⁻
Bead size	0.42 - 1.25 mm
Uniformity coefficient	1.60 max.
Bulk density, as shipped	670 kg/m ³
Real density	1.06 g/cm ³
Water retention	50 - 56%
Total capacity (Cl ⁻ form)	1.30 eq/l min.
Volume change Cl ⁻ -> OH ⁻	30% max.
Stability, temperature	60°C max.
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

- High Integrity Beads
 Excellent resistance to mechanical degradation ensures low pressure drop
- Low Silica Leakage
- Optimized Caustic Soda Consumption Economical advantage
- Resistance To Osmotic Shock
 Extended lifetime and very low number of broken beads

Typical Applications

- Demineralisation in industrial water treatment systems together with Resinex[™] K-8
- Polishing mixed-bed when used in combination with Resinex™ K-8

Standard Packaging

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

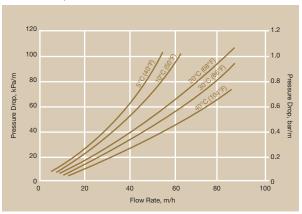




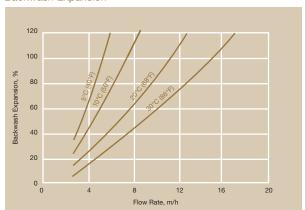
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Pressure Drop



Backwash Expansion



Counter-Flow

Standard Regeneration Parameters

Concentration	4% NaOH	2% NaOH	
Level	70-100 g/l	50-80 g/l	
Flow rate regenerant	4-6 BV/h	6-8 BV/h	
Contact time regenerant	30-60 min.	20-40 min.	
Flow rate slow rinse	4-6 BV/h	6-8 BV/h	
Slow rinse water required	2-4 BV	2 BV	
Flow rate fast rinse	10-30 BV/h	10-30 BV/h	
Fast rinse water required	6-10 BV	6-10 BV	

Co-Flow

Product Packing



25 lit. polyethylene valve bag 48 bags per pallet



Polypropylene FIBCs (big bag), 1.000 lit.





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