Resinex™
Ion Exchange Resin

Resinex™ A-4

Strong base anion exchange resin

Resinex™ 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 Resinex™ A-4 is especially adapted for all modern counter-current systems (i.e. Schwebebett, UPCORE,..).

Typical Properties

Type	Crosslinked polystyrene divinylbenzene
Form	gel-type, white, spherical beads
Functional group	Quarternary Ammonium, Type 1
Whole bead count	95% min.
Ionic 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 $Cl^- \rightarrow OH^-$	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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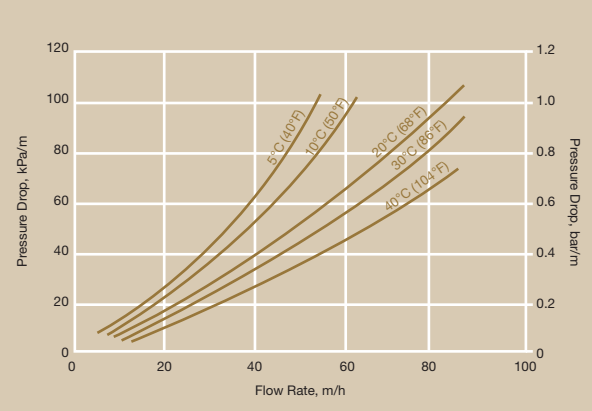
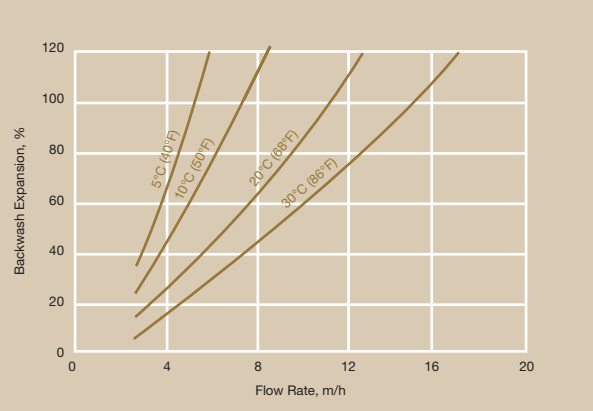
Pressure Drop



Backwash Expansion



Standard Regeneration Parameters	Co-Flow	Counter-Flow
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

Product Packing

25 lit. polyethylene valve bag
48 bags per pallet

Polypropylene FIBCs
(big bag), 1.000 lit.

RX-A4_e_Rev14_20120503

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