



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. Schwebbett, UPCORE,..).

Typical Properties

Type	Crosslinked polystyrene divinylbenzene
Form	Gel-type, white, spherical beads
Functional group	Quaternary amine, type 1
Whole beads count	95% min.
Ionic form, as shipped	Cl ⁻
Bead size	0.42 – 1.25 mm
Uniformity coefficient	≤1.60
Apparent density, as shipped	680 kg/m ³
Real density	1.07 g/cm ³
Water retention	45 – 55%
Total capacity	≥1.30 eq/l
Volume change (Cl ⁻ → OH ⁻)	30% max.
Stability, temperature (Cl ⁻ form)	≤70°C
Stability, pH	0 – 14

Standard Operation Conditions

Bed depth	>700 mm
Service flow rate	8 – 40 BV/h
Backwash expansion	50 – 75%



KEY FEATURES AND BENEFITS

- High Integrity Beads
- Extended Operating Capacity
- Low Silica Leakage
- Resistance To Osmotic Shock
- Optimized Caustic Soda Consumption

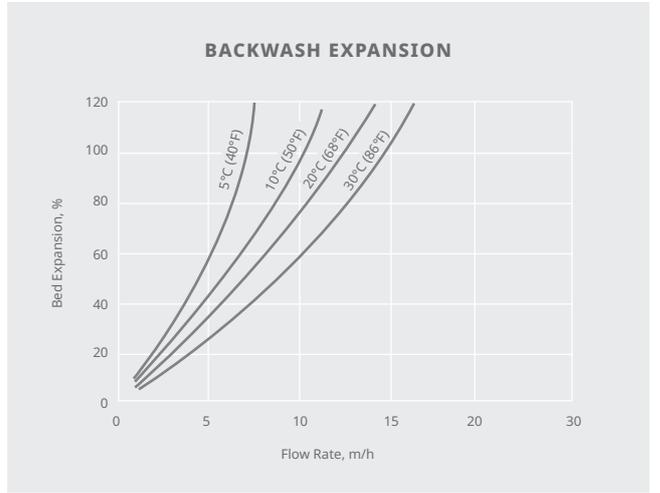
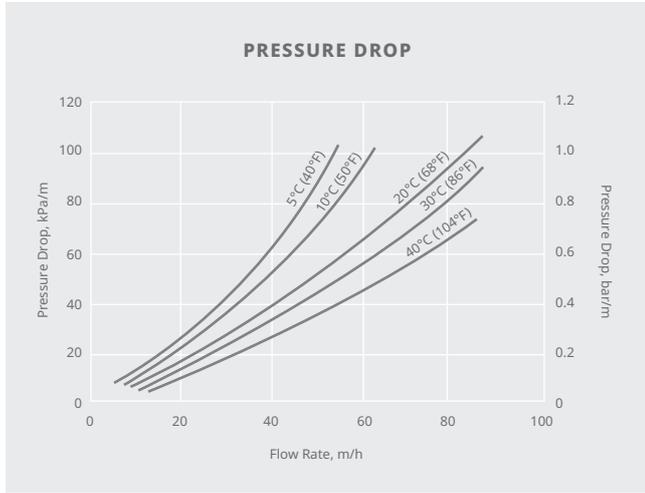


TYPICAL APPLICATIONS

- Demineralisation in industrial water treatment systems together with Resinex™ K-8

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Standard Regeneration Parameters

REGENERATION	CO-FLOW	COUNTER-FLOW
Concentration (NaOH)	4%	4%
Level	70 - 100 g/l	50 - 80 g/l
Flow rate regeneration	4 - 6 BV/h	6 - 8 BV/h
Contact time regeneration	30 - 50 min.	20 -40 min.
Flow rate rinse	4 - 30 BV/h	6 - 30 BV/h
Rinse water required	8 - 14 BV	8 - 12 BV

Product Packaging

25 l / 1 cft polyethylene valve bag
48 bags/pallet
Polypropylene FIBCs (Big Bag), 1000 l / 42 cft

For more information or contact visit: resins.jacobi.net

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