Resinex™ K-7

Strong Acidic Cation Exchange Resin

Resinex™ K-7 is a strongly acidic gel-type cation exchange resin made of a polystyrene-divinyl copolymer. The product is characterized by high mechanical and chemical stability, making it suitable for all industrial softening water applications.
The selected bead distribution is especially adapted for all modern systems (UPCORE, Schwebebett,...)

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KEY FEATURES AND BENEFITS

- High integrity beads
- Extended operating capacity
- Selected bead size



TYPICAL APPLICATIONS

- Industrial softening

Typical Properties

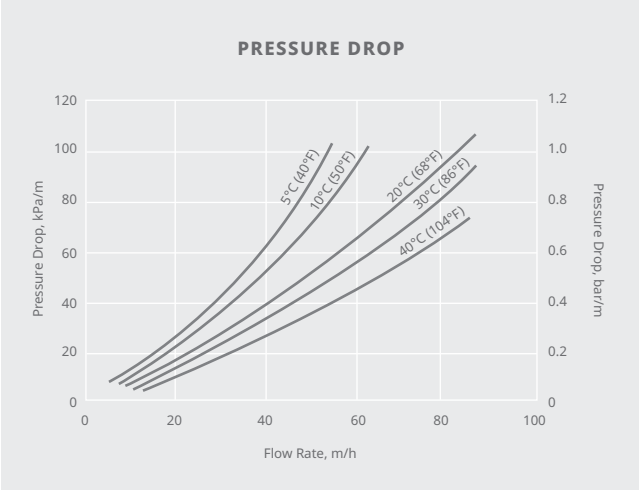
Type	Crosslinked polystyrene divinylbenzene
Form	Gel-type, amber, spherical beads
Functional group	Sulfonic acid
Whole bead count	≥95%
Ionic form, as shipped	Na^+
Bead size	0.42 – 1.25 mm
Uniformity coefficient	≤1.60
Apparent density	approx. 820 kg/m³
Real density	approx. 1.28 g/cm³
Water retention	45 – 50%
Total capacity (Na^+ form)	1.90 eq/l
Volume change ($Na^+ \rightarrow Ca^{2+}$)	≤2%
Stability, temperature	≤120°C
Stability, pH	0 – 14

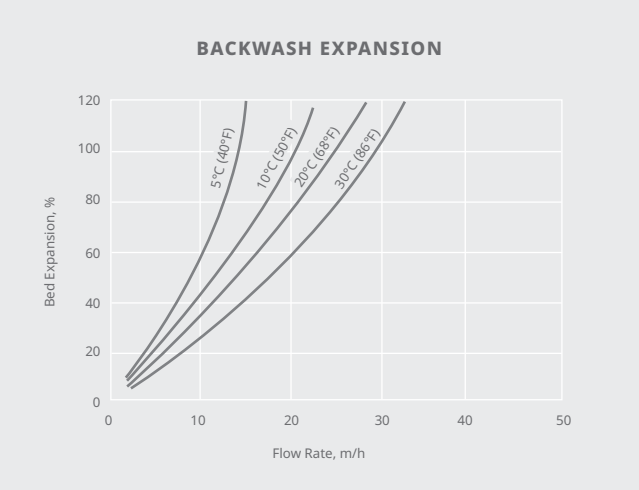
Standard Operation Conditions

Bed depth	>700 mm
Service flow rate	8 – 40 BV/h
Backwash expansion	50 – 75%
Free chlorine (20°C)	<0.1 ppm

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Standard Regeneration Parameters – Softening

REGENERATION	CO-FLOW	COUNTER-FLOW
Concentration (NaCl)	10%	10%
Level	80 – 300 g/l	50 – 150 g/l
Flow rate regeneration	4 – 6 BV/h	5 – 8 BV/h
Contact time regeneration	30 – 60 min	20 – 40 min
Flow rate rinse	5 – 20 BV/h	5 – 20 BV/h
Rinse water required	8 – 15 BV	3 – 6 BV

Product Packaging

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



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

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