Resinex™
Ion Exchange Resin

Resinex™ K-8 FG

Strong acid cation softening resin

Resinex™ K-8 FG is a high purity, premium grade, pretreated, strongly acidic gel-type cation exchange resin specially designed for residential drinking water treatment. The K-8 FG is a bead type, crosslinked, polystyrene divinylbenzene resin that offers excellent bead integrity and very low extractables. The product is highly suitable for a wide variety of drinking water treatment applications. Resinex™ K-8 FG has a light amber color and is specially pretreated to remove taste, odor and color throw. Resinex™ K-8 FG meets the requirements of FDA regulation CFR section 21, §173.25.

Typical Properties

Type	Crosslinked polystyrene divinylbenzene
Form	Gel-type, amber, spherical beads
Functional group	Sulfonic acid
Whole bead count	95% min.
Ionic form, as shipped	Na^+
Bead size	(0.42 - 1.25 mm) 16x40 US mesh
Uniformity coefficient	1.60 max.
Bulk density, as shipped	51 lb/ft^3
Real density	1.28 g/cm^3
Water retention	45 - 48%
Total capacity (Na^+ form)	2.00 eq/l min.
Volume change Ca^{2+} –> Na^+	2% max.
Stability, temperature	248°F max.
Stability, pH	0 - 14
Color throw	25 APHA max.

Standard Design Conditions

Bed depth	> 700 mm
Service flow rate	2-5 gpm/ft^3
Backwash expansion	50 - 75%
NaCl concentration for regeneration	8-15%
Regeneration level	80-300 g/l
NaCl flow rate for regeneration	0.25-0.50 gpm/ft^3
Rinse rate (slow)	1-3 bed volumes at regeneration flow rate
Rinse rate (fast)	3-6 bed volumes at service flow rate
Turbidity	<5.0 NTU
Free chlorine	<1.0 ppm

Key Features and Benefits

- **Pretreated and Rinsed**
  Guarantees minimal color throw and eliminates taste and odor
- **High Integrity Beads**
  Excellent resistance to mechanical degradation ensures low pressure drop
- **Low Extractables - FDA Compliance**
  Specially treated to eliminate leaching of organic matter, assuring compliance with FDA regulation CFR section 21, §173.25

Typical Applications

- Residential Softening
- Industrial Softening
- Municipal Softening

Standard Packaging

- 1 cu.ft. PE valve bag
- 40 cu.ft. super sack

This product has been tested and certified to NSF/ANSI Standard 61 for material safety only.

This product is certified for both POE and non-POE applications. For non-POE applications the product is certified with a minimum flow rate of 0.42 gpm per cubic foot of media.

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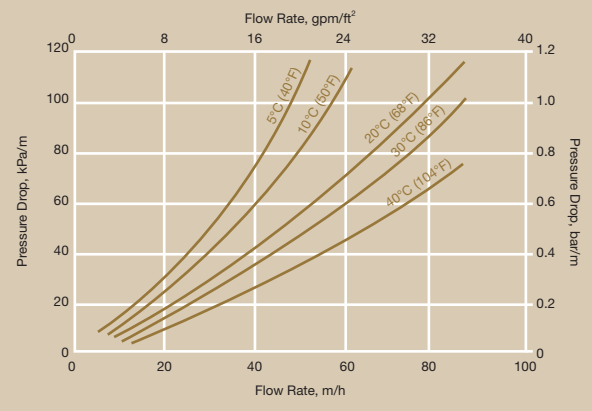
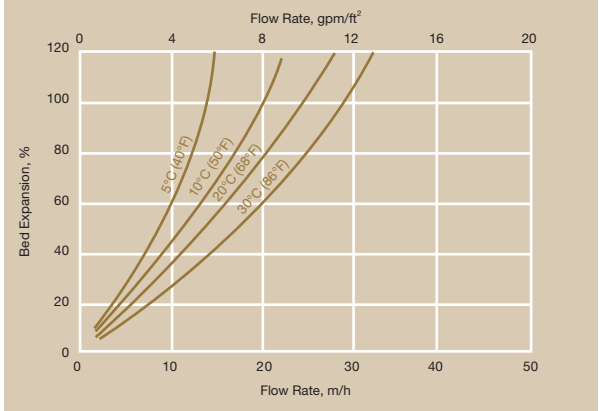
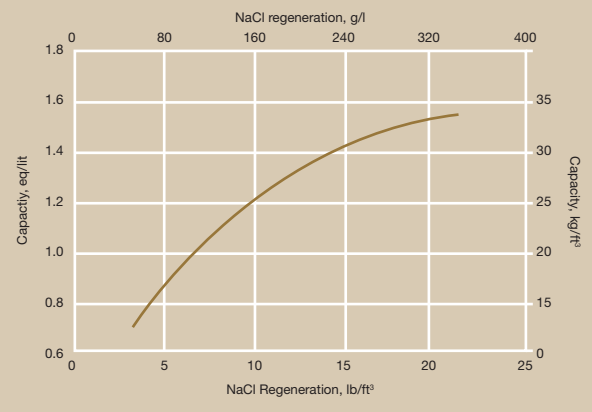
Pressure Drop



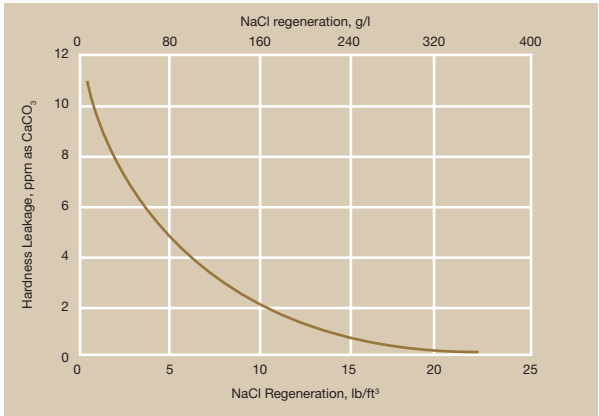
Backwash Expansion



Capacity Information



Hardness Leakage Information



Capacity and Hardness Leakage graphs are shown assuming a service flow of 4 gpm/ft³ (32 l/h/l) and total dissolved solids of 400 ppm and 20 grains of total hardness. The hardness leakage will increase and the capacity will decrease while increasing total dissolved solids and total hardness.

NOTICE If this product is to be used for potable water treatment, or any food grade application, a special procedure must be applied for the initial run. Please ask your nearest Jacobi office for this technical bulletin.

Product Packing

1 cu.ft. polyethylene valve bag
48 bags per pallet

Polypropylene FIBCs
super sack, 40 cu.ft.

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Jacobi

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