

# Resinex™ K-Na

## Weak acid cation resin

**Resinex™ K-Na** is a high purity, premium grade, weakly acidic macroporous-type cation exchange resin, with a superior capacity for removal of temporary hardness, especially designed for industrial applications. The crosslinked, polyacrylic divinylbenzene matrix offers excellent resistance to physical and chemical breakage. The sodium form ensures a very low pH drop during the service run.

The selected bead distribution is especially adapted for all modern systems (UPCORE, Schwebebett,...).

### Typical Properties

Type	Crosslinked polyacrylic divinylbenzene
Form	macroporous, white to cream, spherical beads
Functional group	Carboxylic acid
Whole bead count	95% min.
Ionic form, as shipped	Na <sup>+</sup>
Bead size	0.42 - 1.25 mm
Uniformity coefficient	1.6 max.
Bulk density	710 kg/m <sup>3</sup>
Real density	1.17 g/cm <sup>3</sup>
Water retention	45 - 50%
Total capacity (in H <sup>+</sup> form)	4.20 eq/l min.
Volume change Na <sup>+</sup> → H <sup>+</sup>	-75% max.
Stability, temperature	100°C max.
Stability, pH	0 - 14

### Key Features and Benefits

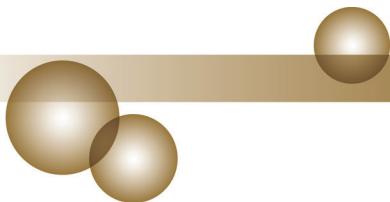
- **High Integrity Beads**  
Excellent resistance to mechanical degradation ensures low pressure drop
- **Superior Total Capacity**  
Economical advantage
- **High Resistance To Osmotic Shock**  
Extended lifetime and very low number of broken beads

### Typical Applications

- Dealkalisation in industrial applications
- Softening of organic product

### Standard Packaging

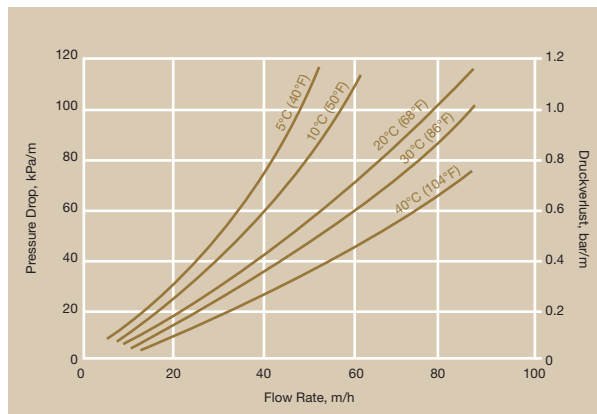
- 25 lit. PE valve bag
- 1000 litre big bag



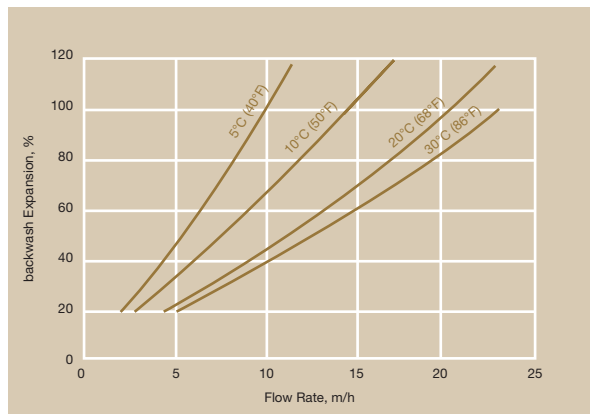
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### Pressure Drop



### Backwash Expansion



### Standard regeneration Parameter

NaOH

Concentration	3-4%
Level	140-170 g/l
Flow rate regenerant	4-10 BV/h
Contact time regeneration	30-60 min.
Flow rate slow rinse	4-10 BV/h
Slow rinse water required	2 BV
Flow rate fast rinse	10-30 BV/h
Fast rinse water required	4-10 BV

**NOTE** For further information to convert the resin into the Na+ form, please contact your nearest Jacobi Office.

### Product Packing



25 lit. polyethylene valve bag  
42 bags per pallet



Polypropylene FIBCs  
(big bag), 1.000 lit.



**CAUTION** Strong oxidizing agents such as nitric acid can react violently with ion exchange resins and cause explosive type reactions. Before using strong oxidants, consult sources knowledgeable in the handling of these materials.



**NOTICE** Due to the progressive nature of the Jacobi Carbons Group and the continually improving design and performance of our products, we reserve the right to change product specifications without prior notification. The information contained in this datasheet is intended to assist a customer in the evaluation and selection of products supplied by Jacobi Carbons. The customer is responsible for determining whether products and the information contained in this document are appropriate for customer's use. Jacobi Carbons assumes no obligation or liability for the usage of the information in this datasheet, no guarantees or warranties, expressed or implied, are provided. Jacobi Carbons disclaims responsibility and the user must accept full responsibility for performance of systems based on this data.

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