

Resinex™ KW-10 UB

Strong acidic cation exchange resin

Resinex™ KW-10 UB is a high purity, premium grade, pretreated, strongly acidic gel-type cation exchange resin specially designed for residential drinking water treatment. The **Resinex™ KW-10 UB** 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™ KW-10 UB** has a light amber color and is specially pretreated to remove taste, odor and color throw. The selected bead size distribution - very close to monodisperse - is especially adapted for all modern counter-current systems and mixed bed systems.

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	(≥90%) 0.50 - 0.71 mm
Uniformity coefficient	1.2 max.
Bulk density, as shipped	820 kg/m ³
Real density	1.31 g/cm ³
Water retention	45 - 48%
Total capacity (Na ⁺ form)	2.20 eq/l min.
Volume change Ca ²⁺ → Na ⁺	2% max.
Stability, temperature	120°C max.
Stability, pH	0 - 14

Standard Design Conditions

Bed depth	> 700 mm
Service flow rate	8 - 55 BV/h
Backwash expansion	50 - 75%

Key Features and Benefits

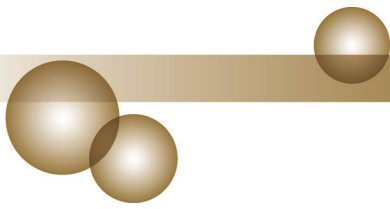
- **High Integrity Beads**
Excellent resistance to mechanical degradation ensures an extended life-time
- **Extended Operating Capacity**
- **High Crosslinked**
Higher mechanical and chemical resistance
- **Uniform Bead Size**
Lower pressure drop and regenerant consumption

Typical Applications

- Residential Softening
- Industrial Softening
- Municipal Softening

Standard Packaging

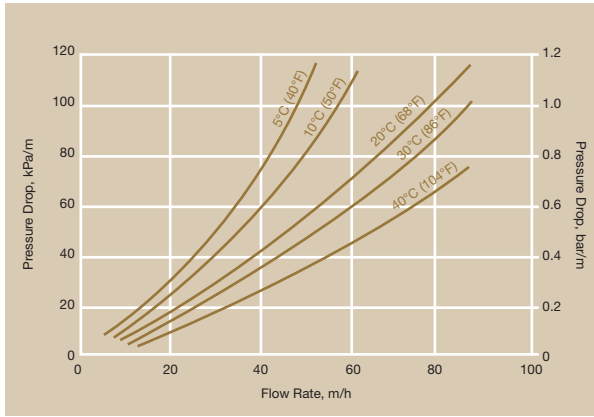
- 25 lit. PE valve bag
- 1000 litre big bag



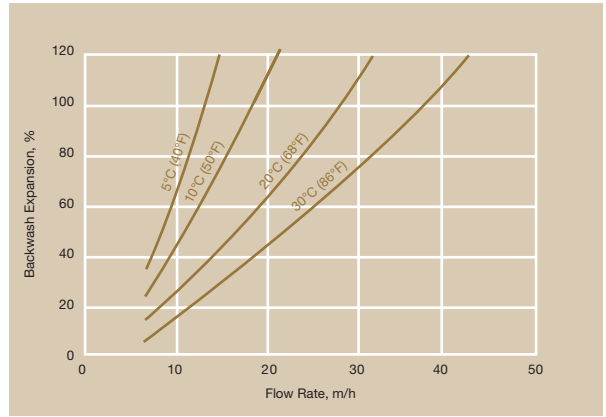
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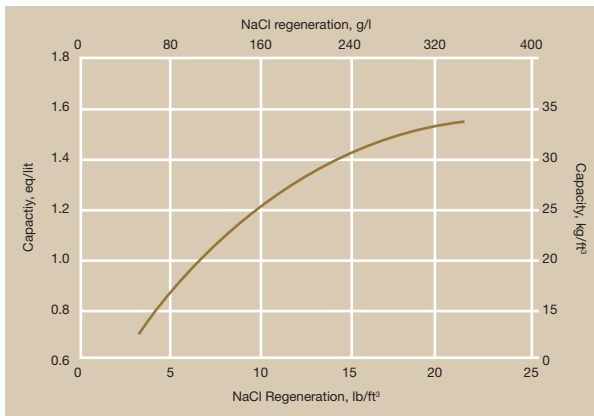
Pressure Drop



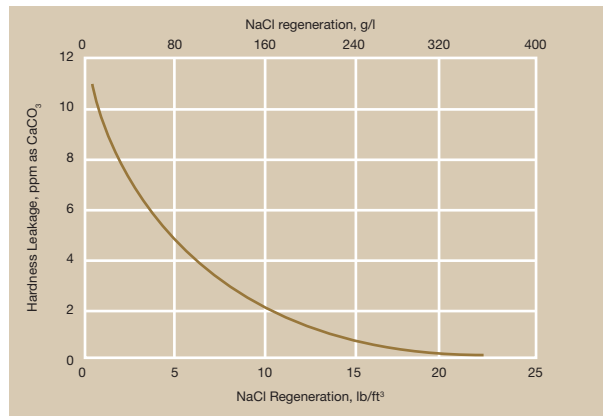
Backwash Expansion



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



25 lit. polyethylene valve bag
48 bags per pallet



Polypropylene FIBCs
(big bag), 1,000 lit.



NOTICE Jacobi Carbons reserves 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 the customers 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.

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.



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JACOBI