

Resinex™ KW-S

Strong acid cation softening resin

Resinex™ KW-S is a strongly acidic gel-type cation exchange resin specially designed for residential drinking water treatment. The KW-S 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 domestic water treatment applications.

Resinex™ KW-S has a light amber color and is specially pretreated to remove taste, odour and colour throw.

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	0.315 - 1.25 mm
Bulk density, as shipped	790 kg/m ³
Real density	1.21 g/cm ³
Water retention	48 - 56%
Total capacity (Na ⁺ form)	1.60 eq/l min.
Volume change Ca ²⁺ → Na ⁺	4% max.
Stability, temperature	120°C max.
Stability, pH	0 - 14

Key Features and Benefits

- **Pretreated and Rinsed**
Guarantees minimal colour throw and limits taste and odour
- **High Integrity Beads**
Excellent resistance to mechanical degradation ensures low pressure drop

Typical Applications

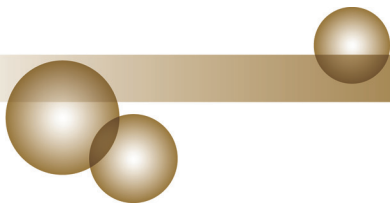
- Domestic Softening
- Industrial Softening

Standard Packaging

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

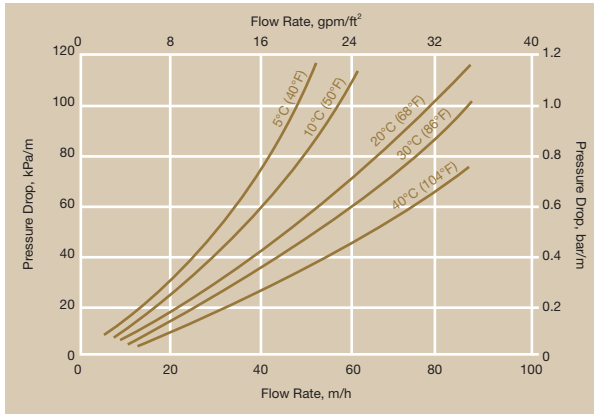
Standard Design Conditions

Bed depth	> 700 mm
Service flow rate	8 - 40 BV/h
Backwash expansion	50 - 75%
NaCl concentration for regeneration	8-15%
Regeneration level	8 - 300 g/l
NaCl flow rate for regeneration	5-8 l/h/l
Rinse rate (slow)	1-3 bed volumes at regeneration flow rate
Rinse rate (fast)	3-6 bed volumes at service flow rate
Free chlorine	<1.0 ppm

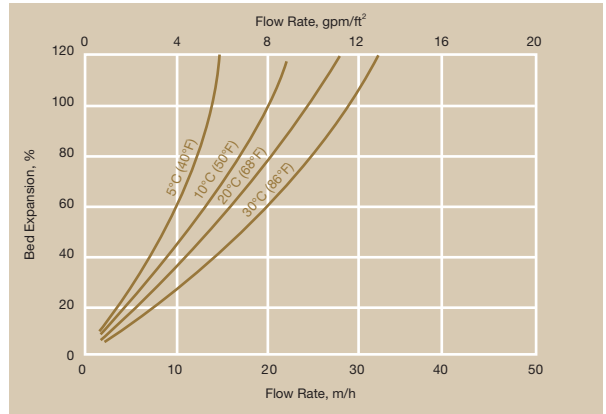


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Pressure Drop



Backwash Expansion



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 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.

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.



LENNTECH

info@lennotech.com Tel. +31-152-610-900
www.lennotech.com Fax. +31-152-616-289



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