

# Resinex™ KW-H plus

## Weak acid cation resin

**Resinex™ KW-H plus** is a high purity, premium grade, weakly acidic macroporous-type cation exchange resin, pretreated with a superior capacity for removal of temporary hardness, especially designed for filter cartridges. The crosslinked, polyacrylic divinylbenzene matrix offers excellent resistance to physical breakage.

**Resinex™ KW-H plus** meets the requirements of the European Council ResAP (2004) 3, WRAS BS 6920 and is available in different particle sizes.

### 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	H <sup>+</sup>
Bead size	0.42 - 1.25 mm
Uniformity coefficient	1.6 max.
Bulk density	770 kg/m <sup>3</sup>
Real density	1.17 g/cm <sup>3</sup>
Water retention	45 - 52%
Total capacity, as shipped	4.30 eq/l min.
Volume change H <sup>+</sup> → Na <sup>+</sup>	65% max.
Stability, temperature	100°C max.
Stability, pH	0 - 14

### Key Features and Benefits

- **Pretreated and Rinsed**  
Guarantees minimal color throw and eliminates taste and odour, especially for cartridges
- **High Integrity Beads**  
Excellent resistance to mechanical degradation ensures low pressure drop
- **Superior Total Capacity**  
Economical advantage
- **European ResAP (2004) 3 Approved**  
Meets European Council Resolution AP (2004) 3 for use of ion exchange resins in processing of food products.
- **WRAS BS 6920 Approved**  
BS 6920 for cold water and hot water up to 85°C

### Typical Applications

- Point-of-use filters
- Filter cartridges
- Softening of organic product

### Standard Packaging

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



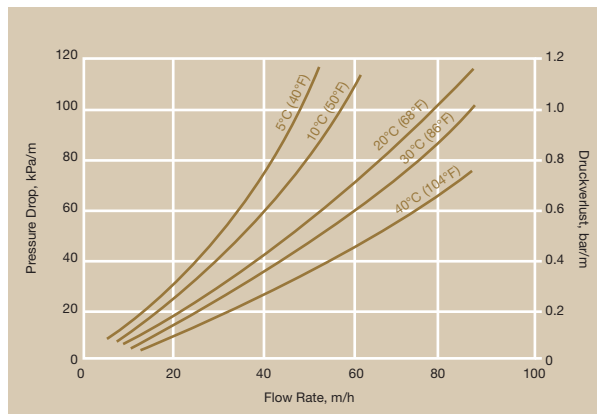
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**Resinex™**  
Ion Exchange Resin

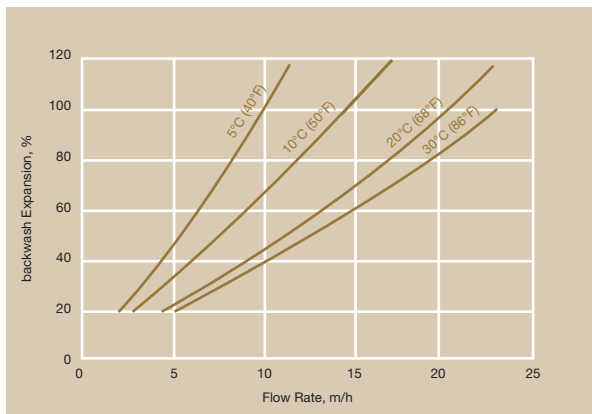
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### Pressure Drop



### Backwash Expansion



### Standard regeneration Parameter

HCl

H<sub>2</sub>SO<sub>4</sub>

Concentration	2-4%	(progressiv) 0.5-0.8%
Level	60-80 g/l	80-100 g/l
Flow rate regenerant	2-6 BV/h	2-8 BV/h
Contact time regeneration	30-60 min.	30-60 min.
Flow rate slow rinse	2-6 BV/h	2-8 BV/h
Slow rinse water required	2 BV	2 BV
Flow rate fast rinse	10-30 BV/h	10-30 BV/h
Fast rinse water required	4-10 BV	4-10 BV

### 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.



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