

Resinex™ KH-G DL

Weak acid cation resin

Resinex™ KH-G DL is a high purity, premium grade, weakly acidic gel-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 selected bead distribution is especially adapted for dual layered systems

Typical Properties

Type	Crosslinked polyacrylic divinylbenzene
Form	gel-type, white to cream, spherical beads
Functional group	Carboxylic acid
Whole bead count	95% min.
Ionic form, as shipped	H ⁺
Bead size	0.30 - 0.80 mm
Uniformity coefficient	1.6 max.
Bulk density	750 kg/m ³
Real density	1.15 g/cm ³
Water retention	48 - 58%
Total capacity, as shipped	3.80 eq/l min.
Volume change H ⁺ -> Ca ²⁺	20% max.
Volume change H ⁺ -> Mg ²⁺	50% max.
Stability, temperature	120°C max.
Stability, pH	0 - 14

Key Features and Benefits

- **High Integrity Beads**
Excellent resistance to mechanical degradation ensures low pressure drop
- **Low Consumption of Regenerant**
Economical advantage
- **Selected Bead Size**
Dual layered bed application

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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Standard regeneration Parameter	HCl	H ₂ SO ₄
Concentration	2-4%	(progressiv) 0.5-0.8%
Level	104-110% of ionic load	
Flow rate regenerant	4-10 BV/h	10-20 BV/h
Contact time regeneration	30-60 min.	30-60 min.
Flow rate slow rinse	4-10 BV/h	10-20 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.



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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