

Resinex™ KP MB H

Strong acid cation exchange resin

Resinex™ KP MB H is a high purity, premium grade, strongly acid macroporous-type cation exchange resin. The macroporous crosslinked matrix offers a very high resistance to osmotic shock, attrition and organic fouling. Its remarkable physical stability makes it suitable for industrial applications at very high velocity such as treatment of condensate. The selected bead distribution of **Resinex™ KP MB H** is especially adapted for mixed bed systems.

Typical Properties

| | |
|--|--|
| Type | Crosslinked polystyrene divinylbenzene |
| Form | macroporous, opaque, spherical beads |
| Functional group | Sulfonic acid |
| Whole bead count | 95% min. |
| Ionic form, as shipped | H ⁺ |
| Bead size | (≥90%) 0.70 - 1.25 mm |
| Uniformity coefficient | 1.60 max. |
| Bulk density, as shipped | 800 kg/m ³ |
| Real density | 1.26 g/cm ³ |
| Water retention | 45 - 55% |
| Total capacity (Na ⁺ form) | 1.80 eq/l min. |
| Volume change H ⁺ → Na ⁺ | -8% 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 low pressure drop
- **Excellent Resistance To Organic Fouling**
Removable organics
- **High Resistance To Osmotic Shock**
Extended lifetime and very low number of broken beads
- **Very High Total Capacity**
Economical advantage
- **Selected Bead Size**
Lower pressure drop and regenerant consumption combined with a perfect separation in mixed bed applications

Typical Applications

- Decationisation in industrial water treatment, especially in presence of high organic loadings
- Demineralisation and polishing mixed bed when used in combination with **Resinex™ AP MB**

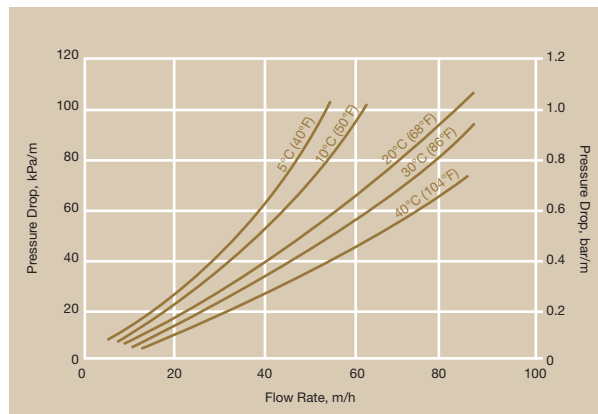
Standard Packaging

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

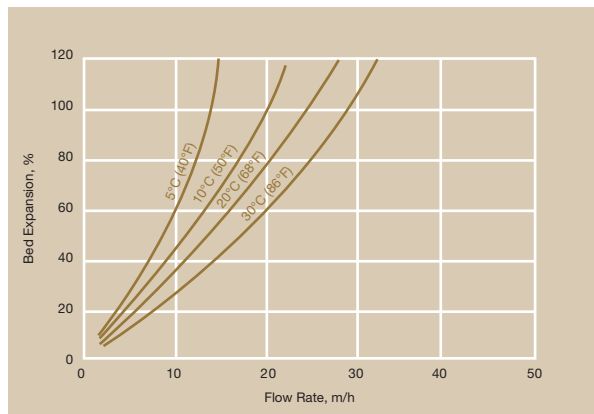
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Pressure Drop



Backwash Expansion



Standard Regeneration Parameters

Co-Flow

Counter-Flow

| | | |
|---------------------------|------------|------------|
| Concentration | 5% HCl | 5% HCl |
| Level | 60-120 g/l | 50-80 g/l |
| Flow rate regenerant | 4-6 BV/h | 6-8 BV/h |
| Contact time regenerant | 30-60 min. | 20-40 min. |
| Flow rate slow rinse | 4-6 BV/h | 6-8 BV/h |
| Slow rinse water required | 2-4 BV | 2 BV |
| Flow rate fast rinse | 10-30 BV/h | 10-30 BV/h |
| Fast rinse water required | 6-10 BV | 6-10 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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