

Resinex™ A-4 OH

Strong base anion exchange resin

Resinex™ A-4 OH is a high purity, premium grade, strongly basic gel-type anion exchange resin type 1, specially designed for achieving low silica leakage in water demineralisation applications. The product is a bead type, crosslinked polystyrene-divinylbenzene copolymer resin that offers a good resistance to physical and mechanical breakage and organic fouling. **Resinex™ A-4 OH** is available in different particles sizes specially adapted to counter-current and mixed-bed applications.

Typical Properties

| | |
|---|--|
| Type | Crosslinked polystyrene divinylbenzene |
| Form | Gel-type, white transparent, spherical beads |
| Functional group | Quaternary Ammonium, Type 1 |
| Whole bead count | 95% min. |
| Ionic form, as shipped | OH |
| Bead size (95% min.) | 0.42-1.25 mm |
| Effective size | 0.45 ± 0.07 mm |
| Bulk density | 670 kg/m ³ |
| Real density | 1.06 g/cm ³ |
| Water retention | 60-70% |
| Total capacity | 0.90 eq/l |
| Volume change OH ⁻ → Cl ⁻ | -30% max. |
| Stability, temperature | 40°C max. |
| Stability, pH | 0-14 |

Standard Design Conditions

| | |
|--------------------|------------|
| Bed depth | >750 mm |
| Service flow rate | 8-40 l/h/l |
| Backwash expansion | 50-75% |

Key Features and Benefits

- **High Integrity Beads**
Excellent resistance to mechanical degradation ensures low pressure drop
- **Low Silica Leakage**
- **Optimized Caustic Soda Consumption**
Economical advantage

Typical Applications

- Demineralisation when used in combination with Resinex™ K-8
- Polishing mixed bed when used in combination with Resinex™ K-8

Standard Packaging

- 25 lit. PE valve bags
- 1000 lit. big bags



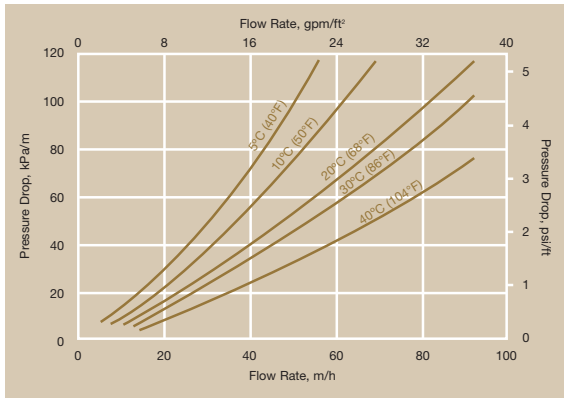
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Resinex™
Ion Exchange Resin

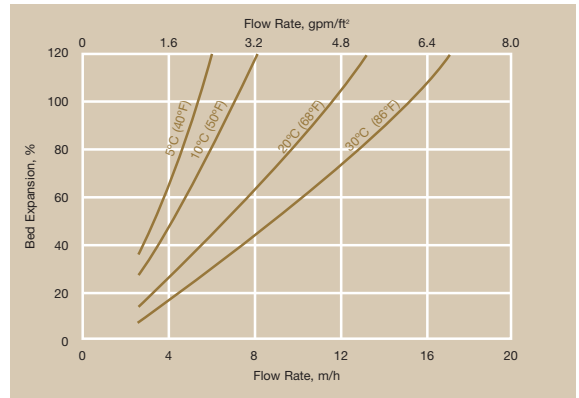
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Pressure Drop



Backwash Expansion



Standard Regeneration Parameters

Co-Flow

Counter-Flow

| | | |
|---------------------------|------------|------------|
| Concentration | 4% NaOH | 2% NaOH |
| Level | 70-100g | 50-80 g/l |
| Flow rate regenerant | 4-6 BV/h | 6-8 BV/h |
| Contact time regeneration | 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 |

The use of a weak base solution such as ammonia or sodium carbonate as a regenerant is an alternative to sodium hydroxide. Please contact your nearest Jacobi sales office for further information.

Product Packaging



25 lit. polyethylene valve bags,
48 bags per pallet



Polypropylene FIBCs
(big bags), 1000 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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