

Resinex™ A-25

Strong base anion exchange resin

Resinex™ A-25 is a high purity, premium grade, strongly basic gel-type anion exchange resin type 2, specially designed to combine a superior running capacity at a low regenerant consumption. **Resinex™ A-25** is typically used for water demineralisation applications and is a bead type, crosslinked polystyrene-divinylbenzene copolymer resin that offers excellent resistance to physical and mechanical breakage as well as organic fouling. This makes it highly suitable for surface water treatment. The bead distribution of **Resinex™ A-25** is tailored for all modern counter-current systems.

Typical Properties

Type	Crosslinked polystyrene divinylbenzene
Form	Gel-type, amber, spherical beads
Functional group	Quaternary Ammonium, Type 2
Whole bead count	95% min.
Ionic form, as shipped	Cl ⁻
Bead size	16x40 US mesh (0.42-1.25 mm)
Effective size	0.42 - 0.58 mm
Bulk density	670 kg/m ³
Real density	1.12 g/cm ³
Water retention	40-50%
Total capacity	1.30 eq/l min.
Volume change Cl ⁻ → OH ⁻	15% max.
Stability, temperature	60°C max. in OH ⁻ form
Stability, pH	0-14
Operating pH	0-11

Standard Design Conditions

Bed depth	>700 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
- **Reversible Capacity For Organics**
Lower investment in pre-purification steps
- **Very Low 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

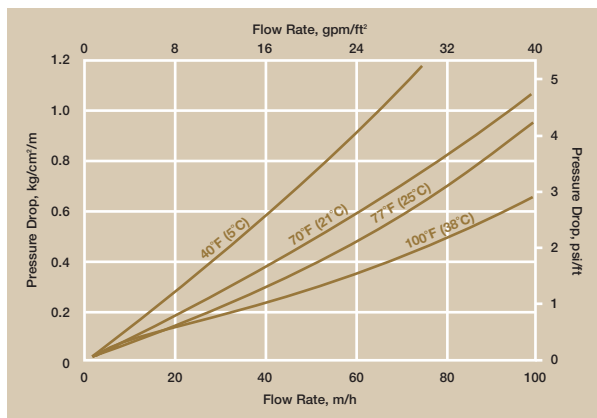
Standard Packaging

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

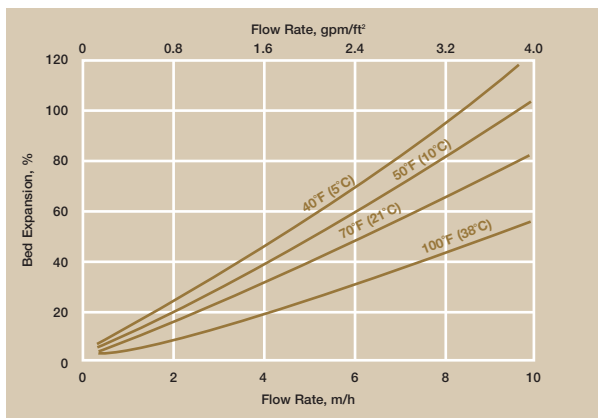
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Pressure Drop



Backwash Expansion



Standard Regeneration Parameters

Co-Flow

Counter-Flow

Concentration	4% NaOH	4% NaOH
Level	80-200 g/l	40-100 g/l
Flow rate regenerant	2-6 BVH	2-6 BVH
Contact time regeneration	30-60 min.	20-40 min.
Flow rate slow rinse	2-6 BVH	2-6 BVH
Slow rinse water required	2 BV	2 BV
Flow rate fast rinse	10-30 BV	10-30 BV
Fast rinse water required	4-10 BV	4-10 BV

Product Packaging



25 lit. polyethylene valve bags,
48 bags per pallet



Polypropylene FIBCs
(big bags), 1000 lit.



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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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