

Resinex™ AW-4

Strong base anion exchange resin

Resinex™ AW-4 is a high purity, premium grade, strongly basic gel-type anion exchange resin type 1, specially designed for demineralisation applications in the food industry. The product is a prewashed, bead type, crosslinked polystyrene-divinylbenzene copolymer resin that offers a good resistance to physical and mechanical breakage and organic fouling. The selected bead distribution of **Resinex™ AW-4** is especially adapted for all modern counter-current systems (i.e. Schwebbett, UPCORE,..).

Typical Properties

Type	Crosslinked polystyrene divinylbenzene
Form	gel-type, white, spherical beads
Functional group	Quarternary Ammonium, Type 1
Whole bead count	95% min.
Ionic form, as shipped	Cl ⁻
Bead size	0.42 - 1.25 mm
Uniformity coefficient	1.60 max.
Bulk density, as shipped	670 kg/m ³
Real density	1.06 g/cm ³
Water retention	50 - 56%
Total capacity (Cl ⁻ form)	1.30 eq/l min.
Volume change Cl ⁻ → OH ⁻	30% max.
Stability, temperature	60°C max.
Stability, pH	0 - 14

Standard Design Conditions

Bed depth	> 750 mm
Service flow rate	8 - 40 BV/h
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
- **Resistance To Osmotic Shock**
Extended lifetime and very low number of broken beads
- **Low Extractables**
Specially treated to eliminate leaching of organic matter

Typical Applications

- Demineralisation in water treatment systems together with **Resinex™ KW-8**
- Polishing mixed-bed when used in combination with **Resinex™ KW-8**

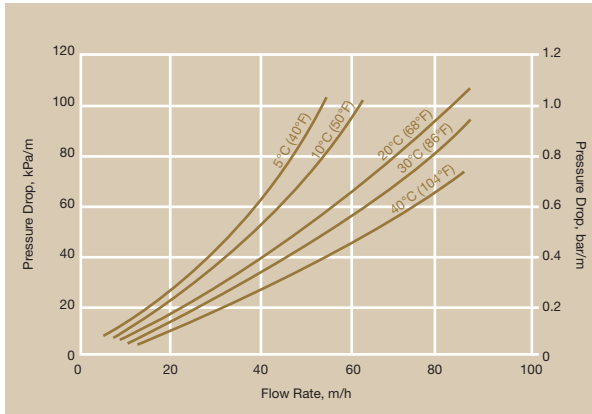
Standard Packaging

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

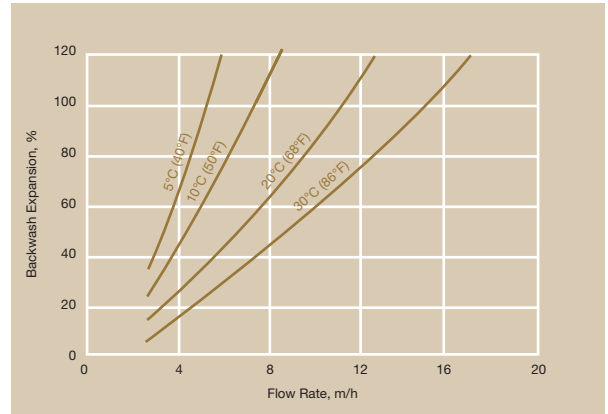
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Pressure Drop



Backwash Expansion



Standard Regeneration Parameters

Co-Flow

Counter-Flow

Concentration	4% NaOH	2% NaOH
Level	70-100 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

NOTICE If this product is to be used for potable water treatment, or any food grade application, a special procedure must be applied for the initial run. Please ask your nearest Jacobi office for this technical bulletin.

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 customers 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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