

# Resinex™ A-25 UB

## Strong base anion exchange resin

**Resinex™ A-25 UB** 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 UB** 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 selected bead distribution of **Resinex™ A-25 UB** - very close to monodisperse - 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 2
Whole bead count	95% min.
Ionic form, as shipped	Cl <sup>-</sup>
Bead size	(≥ 90%) 0.50 - 0.71 mm
Uniformity coefficient	1.20 max.
Bulk density, as shipped	670 kg/m <sup>3</sup>
Real density	1.12 g/cm <sup>3</sup>
Water retention	40 - 50%
Total capacity (Cl <sup>-</sup> form)	1.30 eq/l min.
Volume change Cl <sup>-</sup> → OH <sup>-</sup>	20% max.
Stability, temperature	30°C (OH <sup>-</sup> Form) max.
Stability, pH	0 - 14

### Standard Design Conditions

Bed depth	> 750 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
- **Very Low Caustic Soda Consumption**  
Economical advantage
- **Resistance To Osmotic Shock**  
Extended lifetime and very low number of broken beads
- **Uniform Bead Size**  
Lower pressure drop and regenerant consumption

### Typical Applications

- Demineralisation in industrial water treatment systems together with **Resinex™ K-8 UB**
- Polishing mixed-bed together with **Resinex™ K-8 UB**

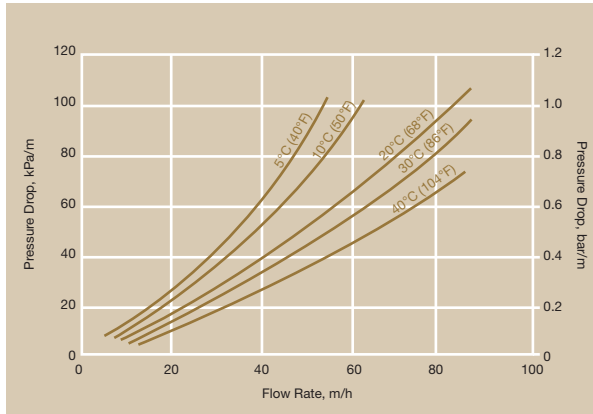
### Standard Packaging

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

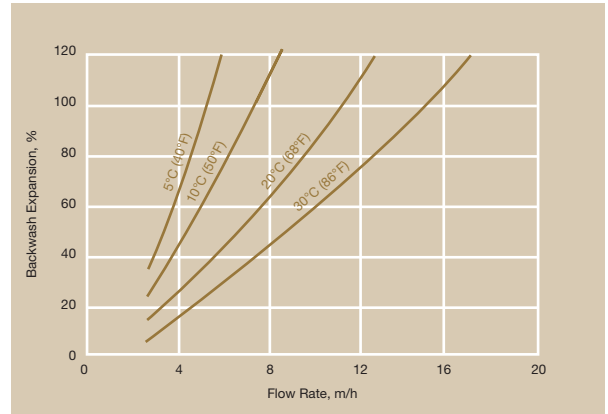
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### Pressure Drop



### Backwash Expansion



### Standard Regeneration Parameters

### Co-Flow

### Counter-Flow

Concentration	4% NaOH	2% NaOH
Level	80-150 g/l	40-60 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.



**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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# JACOBI