Resinex™
Ion Exchange Resin

Resinex™ A-7 UB

Strong base anion exchange resin

Resinex™ A-7 UB is a high crosslinked, high purity, premium grade, strongly basic gel-type anion exchange resin type 1, specially designed for achieving very 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.
The selected bead distribution of Resinex™ A-7 UB - very close to monodisperse - is especially adapted for all modern counter-current systems (i.e. Schwebebett, UPCORE,..) and mixed bed systems.

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	(≥ 90%) 0.50 - 0.71 mm
Uniformity coefficient	1.20 max.
Bulk density, as shipped	700 kg/m^3
Real density	1.08 g/cm^3
Water retention	42 - 48%
Total capacity (Cl^- form)	1.40 eq/l min.
Volume change $Cl^- \rightarrow OH^-$	25% max.
Stability, temperature	60°C 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
- **Low Silica Leakage**
- **Optimized 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
- **Perfect Separation**
  Suitable for Mixed-bed applications

Typical Applications

- Demineralisation in industrial water treatment systems together with Resinex™ K-10 UB
- Condensate treatment in combination with Resinex™ K-10 UB
- Polishing mixed-bed together with Resinex™ K-10 UB

Standard Packaging

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

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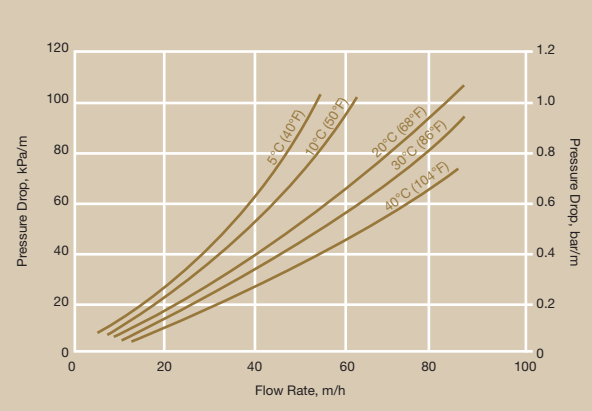
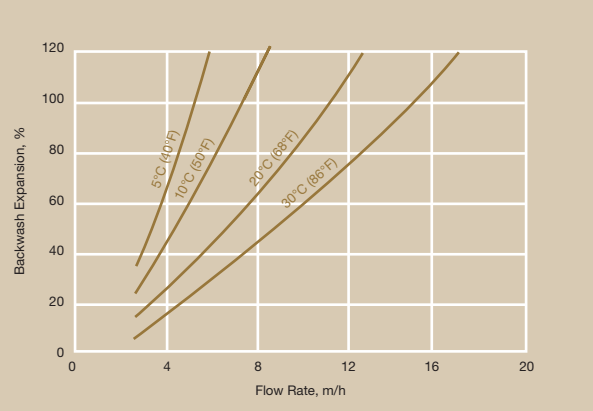
Pressure Drop



Backwash Expansion



Standard Regeneration Parameters	Co-Flow	Counter-Flow
Concentration	4% NaOH	2% NaOH
Level	70-100 g/l	50-80 g/l
Flow rate regenerant	4-6 BV/h	6-8 BV/h
Contact time regenerant	30-50 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 caustic soda. Please contact your nearest Jacobi Carbons sales office for further information.

Product Packing

25 lit. polyethylene valve bag
48 bags per pallet

Polypropylene FIBCs
(big bag), 1.000 lit.

LENNTECH
info@lenntech.com Tel. +31-152-610-900
www.lenntech.com Fax. +31-152-616-289

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