# **Resinex**<sup>™</sup> A-4 Strong base anion exchange resin

Resinex<sup>™</sup> A-4 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 polystyrenedivinylbenzene copolymer resin that offers a good resistance to physical and mechanical breakage and organic fouling. Resinex<sup>™</sup> A-4 is available in different particles sizes specially adapted to counter-current and mixed-bed applications.

### **Typical Properties**

Туре	Crosslinked polystyrene divinylbenzene
Form	Gel-type, amber, spherical beads
Functional group	Quaternary Ammonium, Type 1
Whole bead count	95% min.
lonic form, as shipped	Cl
Bead size	16x40 US mesh (0.42-1.25 mm)
Effective size	0.45 ± 0.07 mm
Bulk density	670 kg/m³
Real density	1.06 g/cm <sup>3</sup>
Water retention	50-56%
Total capacity	1.30 eq/l
Volume change Cl <sup>.</sup> -> OH <sup>.</sup>	30% max.
Stability, temperature	40°C max. in OH <sup>-</sup> form
Stability, pH	0-14

## **Standard Design Conditions**

Bed depth	>750 mm	Standard Packagin
Service flow rate	8-40 l/h/l	<ul><li>25 lit. PE valve bag</li><li>1000 lit. big bags</li></ul>
Backwash expansion	50-75%	

### **Key Features and Benefits**

• High Integrity Beads Excellent resistance to mechanical degradation ensures low pressure drop

Ion Exchange Resin

- 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

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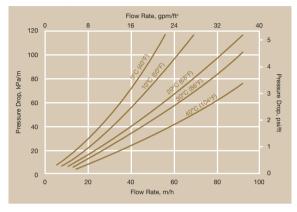
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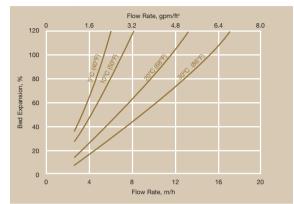




Strong base anion exchange resin

#### Pressure Drop





Standard Regeneration Parameters Co-Flow Counter-Flow Concentration 4% NaOH 2% NaOH 70-100g 50-80 g/l Level 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 BV 2-4 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 armonia 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

GERMANY



Polypropylene FIBCs (big bags), 1000 lit.





 SWEDEN

 Jacobi Carbons AB

 Varvsholmen

 SE-392 30 Kalmar

 Phone: +46-480-417550

 Fax: +46-480-417559

 Email: info@jacobi.net

	Jacobi Carbons (SS)	Jacob
	Ratakatu 1b A3	Feldbe
	FIN-00120 Helsinki	D-603
0	Phone: +358-9-643602	Phone
	Fax: +358-9-642900	Fax: +
	Email: infofin@jacobi.net	Email:

 i Carbons GmbH
 Jacobi Carbons (Asia) Sdn Bhd

 argstraße 21
 1-04-18 Krystal Point Corp Park

 823 Frankfurt/Main
 Bayan Lepas, 11900 Penang

 :: 449-69-719107-0
 Phone: +60-4-6439828

 :49-69-719107-0
 Fax: +60-4-6443928

 indod@jacobi.net
 Email: Infoasia@jacobi.net

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MALAYSIA

UNITED KINGDOM Son Bhd Jacobi Carbons Ltd rp Park Niord House, Lord Str

Jacobi Carbons Ltd Niord House, Lord Street Birkenhead, CH41 1HT Phone: +44-151-649-8344 Fax: +44-151-649-8345 Email: infouk@jacobi.net

1518 Walnut Street, Ste 1350 Philadelphia, PA 19102 Phone: +1 (215) 546-3900 Fax: +1 (215) 546-9921 Email: infous@jacobi.net

UNITED STATES

Jacobi Carbons, Inc.



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