

# Resinex™ NR-1

# Nitrate removal from potable water

Resinex™ NR-1 is a strongly basic macroporous-type anion exchange resin specially developed for selective nitrate removal from potable water in presence of high levels of sulphates. Resinex™ NR-1 offers a superior operating capacity and an excellent selectivity to nitrate for economical treatment in co-flow and counter-flow systems.

### **Typical Properties**

Туре	Crosslinked polystyrene divinylbenzene	
Form	Macroporous, milky white, spherical beads	
Functional group	Quaternary Ammonium	
Whole bead count	95% min.	
lonic form, as shipped	Cl	
Bead size	16x40 US mesh (0.42-1.25 mm)	
Effective size	0.40-0.75 mm	
Bulk density	700 kg/m³	
Real density	1.07 g/cm³	
Water retention	50-60%	
Total capacity	0.80 eq/l min.	
Stability, temperature	100°C max. in Cl <sup>-</sup> form	
Stability, pH	0-14	

# **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
- High Selectivity To Nitrate
  To comply with local legislation
- High Operating Capacity Economical advantage
- Can Be Used Directly In Cartridges
   Point-of-entry and Point-of-use

# **Typical Applications**

· Nitrate removal from drinking water

# **Standard Packaging**

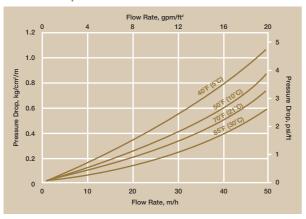
- 25 lit. PE valve bags
- 1000 lit. big bags



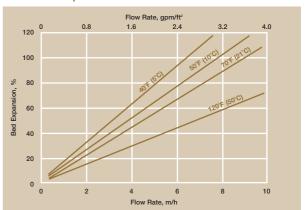
# Resinex® NR-1

Denitrification resin for potable water

# **Pressure Drop**



#### **Backwash Expansion**



# **Standard Regeneration Parameters**

Regeneration	Co-Flow
Concentration	4% NaCl
Level	150-200 g/l
Flow rate regenerant	4-6 BVH
Contact time regeneration	30-60 min.
Flow rate rinse	2-6 BVH
Rinse water required	2 BV

# **Product Packaging**



25 lit. polyethylene valve bags,48 bags per pallet



Polypropylene FIBCs (big bags), 1000 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 customer's use. Jacobi Carbons assumes no obligation or liability for the usage of the information in this datasheet, no guarantees or warranties, express ed or implied, are provided. Jacobi Carbons disclaims responsibility, and the user must accept full responsibility for performation in 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.



Jacobi Carbons AB Varvsholmen SE-392 30 Kalmar Phone: +46-480-417550 Fax: +46-480-417559

Email: info@jacobi.net

SWEDEN

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

FINLAND

Jacobi Carbons GmbH Feldbergstraße 21 D-60323 Frankfurt/Main Phone: +49-69-719107-0 Fax: +49-69-719107-20 Email: infode@jacobi.net

GERMANY

UNITED KINGDOM

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

# UNITED STATES

Jacobi Carbons, Inc. 1518 Walnut Street, Ste 1100 Philadelphia, PA 19102 Phone: +1 (215) 546-3900 Fax: +1 (215) 546-9921 Email: infous@jacobi.net

