

Resinex™ PR-1

Perchlorate removal from potable water

Resinex™ PR-1 is a food grade, high purity, premium grade, strongly basic macroporous-type anion exchange resin, specially developed for selective perchlorate removal from potable water in presence of high levels of sulphate. Resinex™ PR-1 offers a superior operating capacity and an excellent selectivity to nitrate for economical treatment in co-flow and counter-flow systems. Resinex™ PR-1 is implemented where the removal of monovalent ions is necessary. Resinex™ PR-1 is also suitable for nitrate removal applications. This resin is suggested for one-way usage.

Typical Properties

Туре	Crosslinked polystyrene divinylbenzene
Form	macroporous, milky white, spherical beads
Functional group	Quarternary Ammonium
Whole bead count	95% min.
lonic form, as shipped	Cl ⁻
Bead size	(≥ 95%) 0.40 - 1.25 mm (16x40 mesh)
Uniformity coefficient	1.60 max.
Bulk density, as shipped	700 kg/m³
Real density	1.05 g/cm ³
Water retention	48 - 58%
Total capacity (Cl ⁻ form)	0.60 eq/l min.
Stability, temperature	100°C (Cl ⁻ Form) 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
- High Selectivity To Perchlorate
 To comply with local legislation
- High Operating Capacity Economical advantage
- Pretreated Direct Usage In Cartridges
 Point-of-entry and Point-of-use
- WQA ANSI/NSF61 Approved

Typical Applications

- Nitrate removal from drinking water
- Perchlorate and Pertechnetate removal

Standard Packaging

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

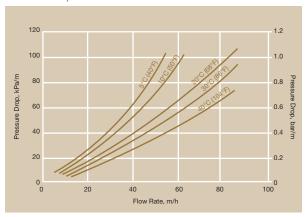




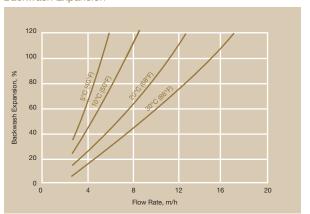
Resinex™ PR-1

Perchlorate removal from potable water

Pressure Drop



Backwash Expansion



Standard Regeneration Parameters

Regeneration	Co-Flow
Concentration	5-10% NaCl
Level	150-200 g/l
Flow rate regenerant	4-6 BV/h
Contact time regenerant	30-60 min.
Flow rate rinse	2-6 BV/h
Rinse water required	2 BV

Product Packing



25 lit. polyethylene valve bag 48 bags per pallet



Polypropylene FIBCs (big bag), 1.000 lit.



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



NOTICE Due to the progressive nature of the Jacobic Carbona Group and the continually improving design and performance of our products, we seeme the right to change product specifications, which perior particulars. The information contained in this databaset is intended to assist a customer in the evaluation and selection of products supplied by Jacobic Carbons. The outsines is responsible for determining whether products and the information contained in this document are exprepriete for customers use Jacobic Carbona State externess as one of the products and the information in this databaset, no guarantees or ventrantee, expressed or implied, are provided. Jacobic Carbona disclaims are not as a second of the products of the second of

© Copyright 2014. Jacobi, Jacobi Carbons, Resinex, the Resinex and the Jacobi logos are trademarks of Jacobi Carbons, all of which mo or may not be used in certain jurisdictions.

