Resinex™ BR-1

Weak base anion exchange resin for boron removal

Resinex™ BR-1 is a macroporous, weak based anion resin, special developed for boron removal. The macroporous matrix of the polystyrene-divinylbenzene-copolymer offers a very high stability against mechanical and chemical degradation. The high selectivity provides an excellent efficiency to economically remove boron from drinking water and various other soltions.

Typical Properties

Type	Crosslinked polystyrene divinylbenzene
Form	Macroporous, lite yellow, spherical beads
Functional group	N-Methyl glucamine functionality
Whole bead count	95% min.
Ionic form, as shipped	Free base
Bead size	0.31 - 1.25 mm
Uniformity coefficient	1.60 max.
Bulk density, as shipped	730 kg/m^3
Real density	1.07 g/cm^3
Water retention	52 - 60%
Total capacity	0.80 eq/l min.
Stability, temperature	80°C max.
Stability, pH	0 - 8

Standard Design Conditions

Bed depth	> 750 mm
Service flow rate	10 - 30 BV/h
Backwash expansion	50 - 75%

Key Features and Benefits

- Specially Treated For Low Extractables
  Suitable for drinking water applications
- High Mechanical Stability
  Excellent resistance to mechanical degradation ensures low pressure drop
- Extremely Selectiv
  High performance and efficiency

Typical Applications

- Boron removal from drinking water
- Boron removal in ultrapure water treatment
- Various industrial applications

Standard Packaging

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

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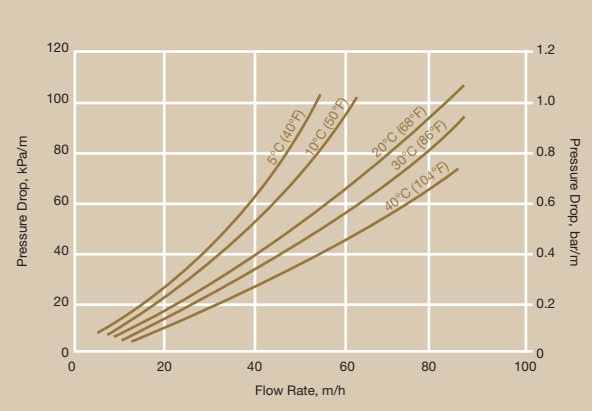
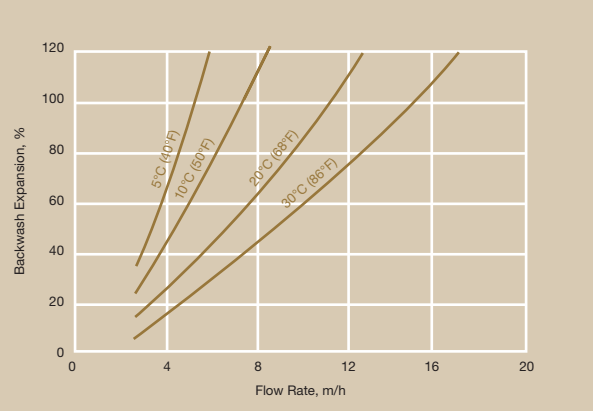
Pressure Drop



Backwash Expansion



Standard Regeneration Parameters	Co-Flow
Concentration	8-10% H_2SO_4
Level	100-120 g/l
Flow rate regenerant	5-7 BV/h
Flow rate rinse	5-7 BV/h
Conditioning	3-5% NaOH
Level	120-150 g/l
Flow rate	5-7 BV/h
Flow rate rinse	5-7 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.

For more information or to contact Jacobi visit: www.resinex.jacobi.net

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