

# 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 solutions.

### 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 <sup>3</sup>
Real density	1.07 g/cm <sup>3</sup>
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

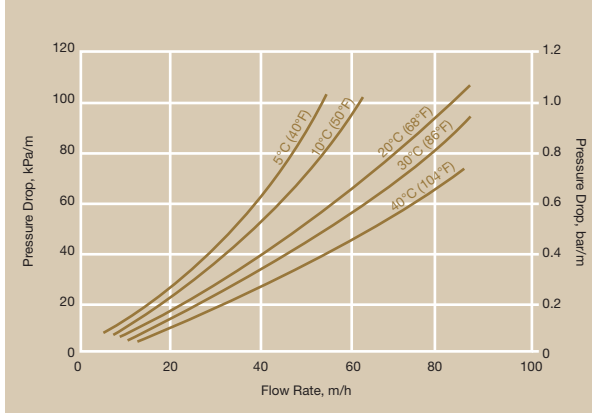


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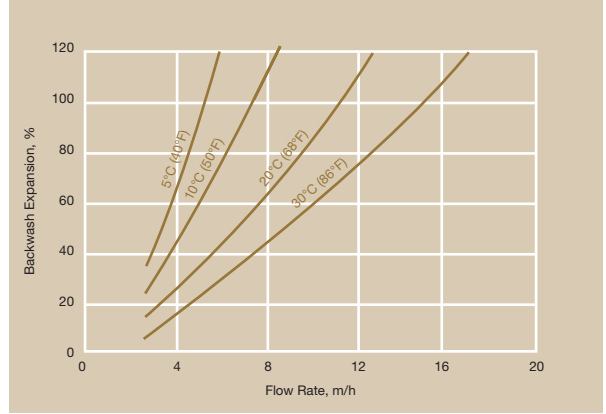
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### Pressure Drop



### Backwash Expansion



### Standard Regeneration Parameters

### Co-Flow

Concentration	8-10% H <sub>2</sub> SO <sub>4</sub>
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](http://www.resinex.jacobi.net)

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