

SEA-IX™

BoroSelect
BR-100

Boron Reduction Resin

Technical Data Sheet

SEA-IX™ BoroSelect is a selective macroporous weak base anion exchange resin which has been specially developed with a high selectivity and capacity for dissolved Boron. With a high stability structure, the SEA-IX™ BoroSelect resin resists chemical and mechanical degradation, ensuring continuous flow. The SEA-IX™ BoroSelect has been tested and is designed to be used in various applications including residential, municipal drinking water, and industrial for ultra-pure water treatment.

SEA-IX™ BoroSelect is intended for use in:

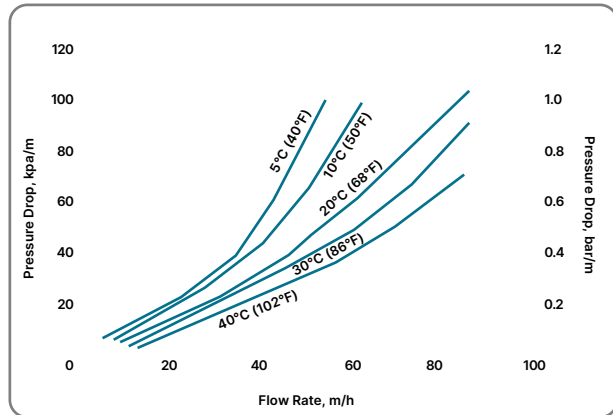
- Various residential water filter devices;
- Municipal & Industrial water treatment;
- Mining waste water; Landfill barriers;
- Drinking water POE/POU systems;
- Biological wetlands; Storm Water runoff
- Aquaculture;
- Soil remediation for heavy metal contaminants.

PRODUCT SPECIFICATIONS	
Physical Form	Macroporous Resin
Color	Light Yellow
Chemical Composition	Polystyrene-divinylbenzene-copolymer
Functional group	N-Methyl glucamine
Appearance	Granular Bead
Particle Size Distribution	310-1250 µm
Bulk Density	0.73 g/cm ³
Water Retention	52%-60%
Capacity	0.8 eq / L min
Packaging	1000L Supersacks

Pressure Drops

The below chart shows the various pressure drops based on flow rate and operating temperatures.

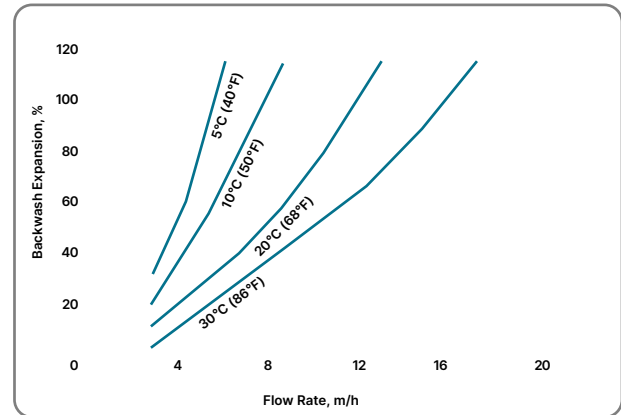
Pressure Drop



Backwash Expansion

The below chart shows the percent of expansion based on flow rate and operating temperatures.

Backwash Expansion



Media Regeneration and Conditioning

To regenerate the SEA-IX™ BoroSelect media, a 2-stage process is required. The regeneration, conditioning, and all rinses are done via co-flow.

Regeneration Process	
Concentration	8-10% Sulfuric Acid (H2SO4)
Quantity Solution per Liter	100 - 120 g/L 6.2 - 7.5 lbs./ft ³
Flow Rate Regenerate	5 - 7 BV/h
Flow Rate Rinse (Fresh Water)	5 - 7 BV/h
Reconditioning Process	
Concentration	3-5% Sodium Hydroxide (NaOH)
Quantity Solution per Liter	120 - 150 g/L 7.5 - 9.3 lbs./ft ³
Flow rate Rinse (Soft Water)	5 - 7 BV/h