

SIR-150-HP

Borate selective, weak base anion resin, styrenic/DVB macroporous, high purity, free base form

ResinTech SIR-150-HP is a borate selective macroporous chelating weak base anion resin. Its unique functionality provides exceedingly high selectivity for boron in almost any aqueous solution, yet can be regenerated with acid and then neutralized with various alkaline salts prior to use. SIR-150-HP is intended for all borate removal applications including potable water, ultrapure water, and boron removal from concentrated brines.



FEATURES & BENEFITS

- Highly Selective For Boron
- High Purity Grade Suitable for Ultrapure Applications
- Suitable For Regenerable Applications
- Superior Physical Stability
- Controlled Particle Size

APPLICATIONS

- Boron Removal
- Drinking Water Purification
- Cartridge Applications

Polymer Matrix	Styrene/DVB	Uniformity	Gaussian
Polymer Type	Macroporous	Uniformity Coefficient	1.60
Ionic Form (as shipped)	Free Base (FB)	Capacity (meq/mL)	0.60
Functional Group	Methylglucamine	Moisture Retention (%)	46 to 60
Physical Form	Spherical Beads	Shipping Weight	39 - 41 lbs/cu.ft. (625 - 657 g/L)
Particle Size US Mesh (µm)	16 (1190) to 50 (297)	Color	White to Tan
< 50 mesh (300 µm) %	< 1%	Regenerable	Regenerable
Minimum Sphericity (%)	95		

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SUGGESTED OPERATING CONDITIONS

Maximum Temperature	170°F (77°C)	Operating pH Range	4.0 to 10.0
Minimum Bed Depth	24 in. (61.0 cm)	Flow Rate	
Maximum Pressure Loss	20 psi (138 kPa)	Working Service	1-2 gpm/cu.ft. (8-16 BV/h)
Backwash Expansion (%)	25 to 50		

REGENERATION DETAILS

Salt Cycle (NaCl)	10 to 15%	Regenerant Contact Time	> 30 minutes
Acid Strip (HCl)	0.5 to 6%	Displacement Flow Rate	Same as dilution water
Caustic Neutralization (NaOH)	1 to 4%	Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Regenerant Level	3-10 lbs/cu.ft. (48.1-160.2 g/L)	Rinse Flow Rate	Same as service flow
Regenerant Flow Rate	0.25-1.0 gpm/cu.ft. (2-8 BV/h)	Rinse Volume	35-60 gals/cu.ft. (5-8 BV)

PACKAGING

Standard

1 cu.ft. Bag | 7 cu.ft. Drum
 42 cu.ft. Supersack | 5 cu.ft. Drum

Metric

1000L Supersack | 140L Drum

SAFETY DATA SHEETS (SDS)

Safety Data Sheets (SDS) are available for all products on the ResinTech website. They contain important health and safety information that may be needed to protect your employees and customers from any known health and safety hazards associated with our products. We recommend that you secure and study the pertinent MSDS for our products and any other products being used.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith. However we do not make any guarantee or warranty. We caution against using these products in an unsafe manner or in violation of any patents; further we assume no liability for the consequences of any such actions.

Safety Data Sheets (SDS) are available at resintech.com

