SIR-150-HP

Grade: High Purity

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

PHYSICAL PROPERTIES

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

SUGGESTED OPERATING CONDITIONS

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

REACH COMPLIANCE

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

CORPORATE HEADQUARTERS 1801 Federal Street Camden, NJ 08105 USA PHONE 856.768.9600 EMAIL info@resintech.com WEB resintech.com

SIR-150-HP

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
200L Drum | 25L Bag

Metric

42 cu.ft. Supersack | 5 cu.ft. Drum
1000L Supersack | 140L Drum

Shipping Weight

39 - 41 lbs/cu.ft. (625 - 657 g/L)

MATERIAL SAFETY DATA SHEETS (MSDS)

Material Safety Data Sheets (MSDS) 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

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

CORPORATE HEADQUARTERS 1801 Federal Street Camden, NJ 08105 USA PHONE 856.768.9600 EMAIL info@resintech.com WEB resintech.com