SIR-300 PH ADJ

Grade: Standard

Heavy metal selective,chelating resin, styrene/DVB macroporous, ph adjusted, sodium form

ResinTech SIR-300-pH-Adj is a sodium form macroporous chelating weak acid cation resin. Its unique chelating functionality removes divalent transition metals preferentially to alkaline earth metals such as calcium. SIR-300-pH-Adj is intended for the removal of low to moderate concentrations of heavy metals from waste streams. It is partially converted to the hydrogen form such that the initial effluent pH is slightly acidic rather than strongly alkaline.

FEATURES & BENEFITS

- Removes Heavy Metal Cations From Process Solutions
- Removes Heavy Metals From Rinse Waters
- Superior Physical Stability
- Controlled Particle Size

APPLICATIONS

- Cartridge Applications
- Copper Removal
- Heavy Metal Removal
- Lead Removal
- pH Control

PHYSICAL PROPERTIES

Polymer Matrix	Styrene/DVB
Polymer Type	Macroporous
Ionic Form (as shipped)	Sodium (Na^+)
Functional Group	Iminodiacetic
Physical Form	Spherical Beads
Uniformity Coefficient	1.60
Particle Size	16-50 US mesh (297-1190µm)
< 50 mesh (300 µm) %	< 1%
Minimum Sphericity (%)	95
Reversible Swelling	30 to 40% (Na → H)
Capacity (meq/mL)	1.40
Moisture Retention (%)	50 to 60
Shipping Weight	43 - 45 lbs/cu.ft. (689 - 721 g/L)
Color	White to Tan

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	212°F (100°C)
Minimum Bed Depth	36 in. (91.4 cm)
Backwash Expansion (%)	25 to 50
Flow Rate	
Working Service	1-2 gpm/cu.ft. (8-16 BV/h)

RESINTECH INC.
INNOVATIONS IN ION EXCHANGE

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SIR-300 PH ADJ

REGENERATION DETAILS

Acid Strip (HCl)	0.5 to 6%
Caustic Neutralization (NaOH)	0.5 to 6%
Regenerant Level	2-10 lbs/cu.ft. (32.0-160.2 g/L)
Regenerant Flow Rate	0.25-1.0 gpm/cu.ft. (2-8 BV/h)
Regenerant Contact Time	> 30 minutes
Displacement Flow Rate	Same as dilution water
Displacement Volume	10-20 gals/cu.ft. (1-3 BV)
Rinse Flow Rate	Same as service flow
Rinse Volume	35-60 gals/cu.ft. (5-8 BV)

CERTIFICATIONS

REACH Registered

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

43 - 45 lbs/cu.ft. (689 - 721 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

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