PRODUCT SPECIFICATION SHEET



FLUORIDE & ARSENIC SELECTIVE
ZEOLITE CRYSTALLINE ADSORBANT
ALUMINUM OXIDE FORM

ResinTech SIR-900 is a granular aluminum oxide-based adsorbent. It has a strong adsorptive capacity for a variety of contaminants including lead, arsenate, and selenate.

SIR-900 is intended for the removal of fluoride from water and can also be used for the removal of arsenate, selenate, and lead from potable water.

APPLICATIONS

- Fluoride Removal
- Arsenic Removal
- Lead Removal

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Zeolite Crystalline
Ionic Form	Aluminum Oxide
Fuctional Group	Aluminum Oxide
Physical Form	Flake) Oranules
Particle Size	16 to 50 US Mesh (297 +190 μm)
% < 50 mesh (300μm)	LETO NCAL
Uniformity Coefficient	4ENII
Temp Limit	212°F (100°C)
Moisture Retention Shipping Weight	0% to 10%
Shipping Weight	37 - 39 lbs/ft³ (593 - 625 g/L)
Color	White
Regenerability	Yes

PACKAGING OPTIONS

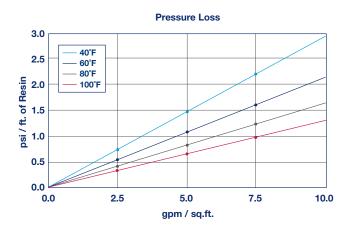
- 500 ml samples
- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks







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SUGGESTED OPERATING CONDITIONS Maximum sentinuous temperature Winimum bed depth Backwash expansion Maximum pressure loss Operation **Backwash Expansion** 100 40°F 60°F Percent of Expansion 80°F 100°F 60 40 20 0 0.0 2.0 gpm / sq.ft.

FLUORIDE REMOVAL

Fluoride is removed by ResinTech SIR-900 by a chemical reaction which is flow and pH sensitive. The best results are obtained when the flow is limited to about 1 gpm/cu.ft. and the pH is held at 5.5. Higher flows and higher or lower pH results in loss of capacity. Leakage of fluoride is generally less than 0.1 mg/L to breakthrough. SIR-900 can be regenerated with sodium hydroxide, followed by neutralization with acid at a pH of 5-6.

ARSENIC REMOVAL

Inorganic arsenic (arsenate) can be removed by ResinTech SIR-900. The process is pH sensitive and capacity decreases when the pH is below 5.5 or above 6.0. Arsenite is not removed nearly as well as arsenate, therefore pre-oxidation may be required.

LEAD REMOVAL

Dissolved lead is adsorbed by ResinTech SIR-900. This process is not dramatically affected by flow rate, temperature or TDS. However, pH should be maintained above 6.0 as lead removal drops under acidic conditions, and below 10 as

212°F 36 inches 25 to 50 percent 25 psi 4 to 10 SU 1 to 2 gpm/cu.ft. Intermittent 1 to 5 gpm/cu.ft.

Note: These guidelines describe average low risk operating conditions. They are not intended to be absolute minimums or maximums

For operation outside these guidelines, contact ResinTech Technical Support

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