

# SIR-900

## Fluoride & arsenic selective, synthetic adsorbent, crystalline aluminum oxide

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.



### FEATURES & BENEFITS

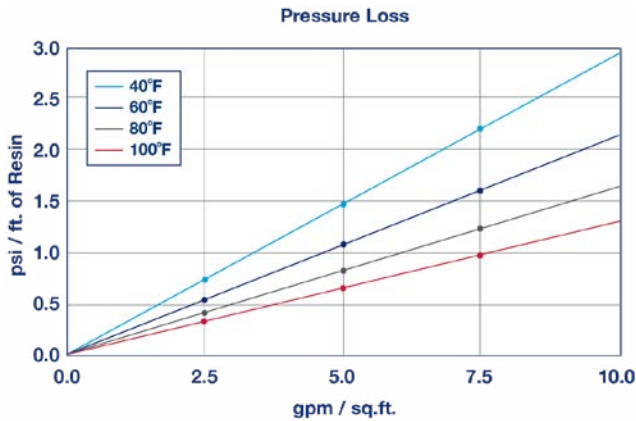
- High Affinity For Fluoride
- Multiple Contaminant Removal
- Superior Physical Stability
- Controlled Granule Size

### APPLICATIONS

- Cartridge Applications
- Arsenic Removal
- Fluoride Removal
- Lead Removal

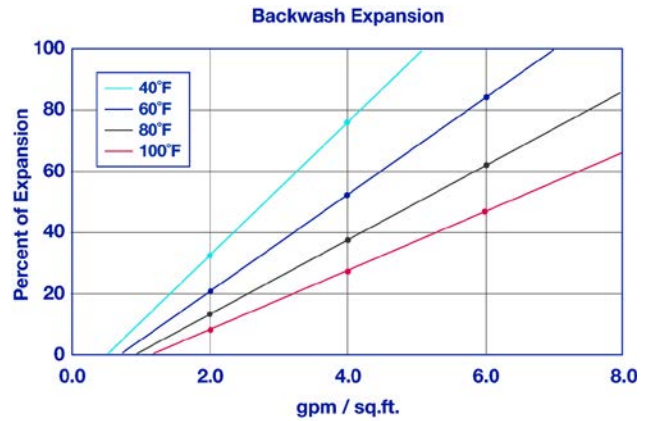
Polymer Matrix	Zeolite	< 50 mesh (300 µm) %	< 1%
Polymer Type	Crystalline	Uniformity	Gaussian
Ionic Form (as shipped)	Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	Uniformity Coefficient	2.20
Functional Group	Aluminum Oxide	Moisture Retention (%)	0 to 10
Physical Form	Granular	Shipping Weight	37 - 39 lbs/cu.ft. (593 - 625 g/L)
Particle Size US Mesh (µm)	16 (1190) to 50 (297)	Color	White

**PRESSURE LOSS**



The graph above shows the expected pressure loss of ResinTech SIR-900 per foot of bed depth as a function of flow rate at various temperatures.

**BACKWASH EXPANSION**



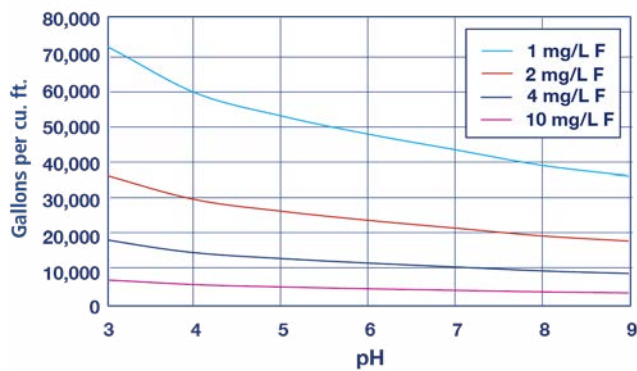
The graph above shows the expansion characteristics of ResinTech SIR-900 as a function of flow rate at various temperatures.

**SUGGESTED OPERATING CONDITIONS**

Maximum Temperature	212°F (100°C)
Minimum Bed Depth	36 in. (91.4 cm)
Maximum Pressure Loss	25 psi (172 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)

**SIR-900 Throughput Capacity**



SIR-900 capacity is based on a flow rate of 1 gpm per cu. ft. and less than 500 ppm TDS as CaCO<sub>3</sub>. No engineering downgrade has been applied.

\*The two charts below are capacity correction factors for specific conditions.

**PACKAGING****Standard**

1 cu.ft. Bag | 7 cu.ft. Drum

5 cu.ft. Drum | 42 cu.ft. Supersack

**Metric**

140L Drum | 1000 L Supersack

**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](https://resintech.com)

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