PRODUCT SPECIFICATION SHEET



SELECTIVE EXCHANGER

PFAS, NITRATE, & PERCHLORATE SELECTIVE
STRONG BASE ANION
CHLORIDE FORM

ResinTech SIR-110-HP is a chloride form perchlorate, nitrate, and PFAS selective gel strong base anion resin. The HP designation means it is Gold Seal Certified by the WQA for use in potable water applications. Its unique functionality greatly increases the selectivity for nitrate while greatly decreasing the interference from sulfate ions. SIR-110-HP is recommended for the removal of perchlorate, nitrate, and most PFAS compounds.

APPLICATIONS

- Perchlorate Removal
- Nitrate Removal
- Iodide Removal
- Pertechnetate Removal
- PFAS Removal

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Gel
Ionic Form	Chloride
Fuctional Group	Tributylamine
Physical Form	Spherical Beads ON
Particle Size	16 0,50 US Mestr (297 - 1190µm)
% < 50 mesh (300μm)	PAMO
Physical Form Particle Size % < 50 mesh (300µm) Minimum Sphericity Uniformity Coefficient Reversable Swelling Temp Limit	80%
Uniformity Coefficient	1.6
Reversable Swelling	CI to No ₃ -5% to -10%
Temp Limit	250°F (121°C)
Capacity (meq/mL)	0.8
Moisture Retention	38% to 50%
Shipping Weight	40 - 42 lbs/ft³ (641 - 673 g/L)
Color	Yellow to Orange
Regenerability	Yes

CERTIFICATIONS

WQA Gold Seal



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PACKAGING OPTIONS

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

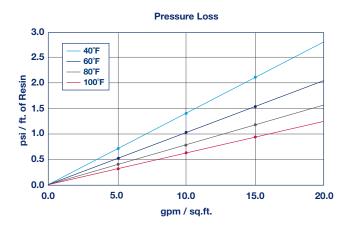




SIR-110-HP

SELECTIVE EXCHANGER

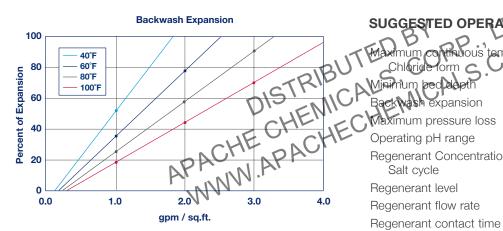
PFAS, NITRATE, & PERCHLORATE SELECTIVE STRONG BASE ANION **CHLORIDE FORM**



water chemistry (chloride, sulfate, alkalinity, etc.). Any other contaminants that may be present are also needed to determine impact on PFAS removal (uranium, perchlorate, chromate, arsenic, etc.).

PERCHLORATE REMOVAL

ResinTech SIR-110-HP is ideal for single use perchlorate removal applications and is a cost effective method to remove trace levels of perchlorate from water. The perchlorate ion is very strongly attracted to the ResinTech SIR-110-HP, so much so that regeneration is impractical or impossible.



SUGGESTED OPERATING CONDITIONS

170°F 24 inches 25 to 50 percent 20 psi 4 to 10 SU

Regenerant Concentration

Service flow rate

5 to 10 percent NaCl >10 lbs./cu.ft. 0.25 to 1.0 gpm/cu.ft. Regenerant contact time >30 minutes Displacement flow rate Same as dilution flow Displacement volume 10 to 15 gallons/cu.ft. Rinse flow rate Same as service flow Rinse volume 35 to 60 gallons/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

PFAS REMOVAL

ResinTech SIR-110-HP can be used for removal of various PFAS compounds, including PFOA and PFOS, from water. Testing has shown it can remove a wide range of other PFAS species in addition to these compounds. Ion exchange offers the benefit of reduced contact times and longer throughputs vs. conventional activated carbon treatment. An understanding of the influent water chemistry is needed for thorough review. Levels of TOC, VOC and individual PFAS compounds are needed in addition to the basic background

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1 to 3 gpm/cu.ft.