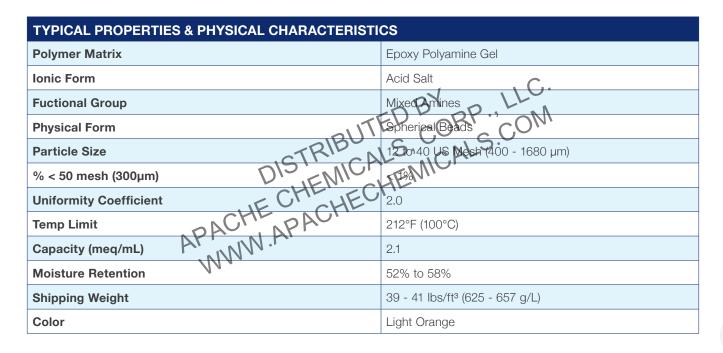
SIR-700-HP SELECTIVE EXCHANGER

CHROMATE SELECTIVE HIGH-PURITY GRADE EPOXY POLYAMINE GEL ACID CHLORIDE FORM

ResinTech SIR-700-HP is an acid salt form granular gel weak base anion resin. The HP designation means it is Gold Seal Certified by the WQA for use in potable water applications. Its unique functionality utilizes a secondary mechanism for chromate removal that causes chromium to precipitate inside the resin matrix when the feed pH is slightly acidic. SIR-700-HP is intended for all chromate removal applications.

APPLICATIONS

- Chromate Removal
- Vanadium Removal



CERTIFICATIONS

WQA Gold Seal

PACKAGING OPTIONS

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





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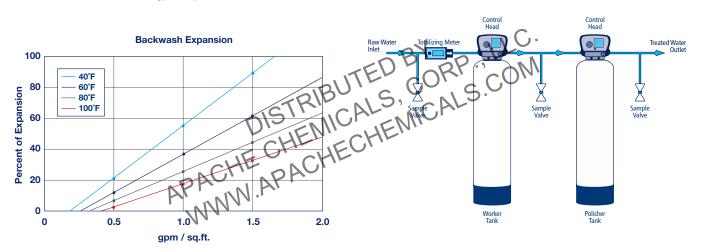


CHROMATE SELECTIVE HIGH-PURITY GRADE EPOXY POLYAMINE GEL ACID CHLORIDE FORM



periodic soak steps at lower pH to allow the reduction step to catch up. Capacities in excess of 5 lbs of chrome (as Cr) per cu. ft. of media are routinely achieved with SIR-700-HP when operated at optimum pH and flow conditions. SIR-700-HP is not affected by common ions such as nitrate, sulfate, or chloride but can be damaged or fouled by high levels of suspended solids, iron, manganese, chlorine, etc.

SUGGESTED SYSTEM CONFIGURATION FOR SIR-700-HP



CHROMATE REMOVAL

ResinTech SIR-700-HP is a unique weak base anion exchanger with a secondary hybrid capture mechanism for chromate. Under neutral to slightly acidic conditions, chromate is first exchanged into the resin, then reduced to trivalent chrome which covalently bonds to the resin backbone. Throughput capacity is many times greater than that provided by the ion exchange groups alone, allowing very high loading and infrequent change-outs. Because the hexavalent chromate reduction step is both time and pH dependent, it is the rate controlling step. Operation at pH greater than 6 requires low flow rates, rest periods, or

SUGGESTED OPERATING CONDITIONS

100°F
24 inches
25 to 50 percent
20 psi
4 to 7 SU
1 to 4 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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