

SUPRA SIR-1300 CATALYST

CATALYTIC REDOX MEDIA POLYSTYRENIC GEL CHLORIDE FORM

ResinTech SIR-1300 is a chloride form hybrid gel strong base anion resin. It has manganese oxide mono atomically dispersed throughout the polymer. The oxygen atoms combine with ferrous iron to form an insoluble ferric oxide, which is trapped inside the resin bed. Oxygen is replenished by air scour in the cleaning cycle, then accumulated iron particles are removed by backwash. SIR-1300 is intended for the removal of ferrous iron from potable water.

APPLICATIONS

- Ferrous Iron Removal

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Gel
Ionic Form	Chloride
Functional Group	Quaternary Amine
Physical Form	Spherical Beads
Particle Size	16 to 50 US Mesh (297 - 1190µm)
% < 50 mesh (300µm)	< 1%
Minimum Sphericity	90%
Uniformity Coefficient	1.6
Temp Limit	100°F (38°C)
Moisture Retention	40% to 52%
Shipping Weight	43 - 45 lbs/ft³ (689 - 721 g/L)
Color	Brown to Black
Regenerability	Yes (with oxygen from air)

PACKAGING OPTIONS

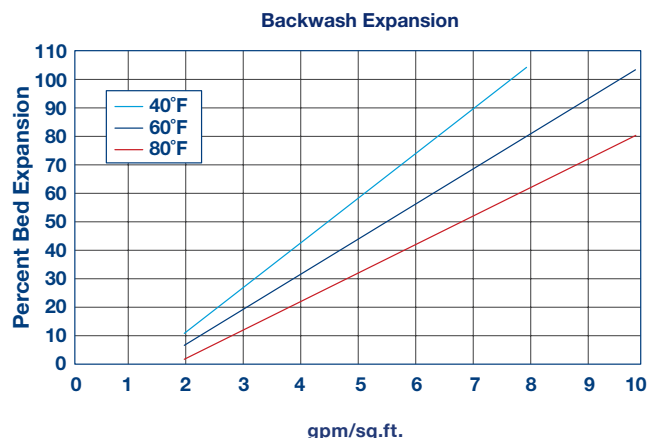
- 500 ml samples
- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

SUPRA

SIR-1300

CATALYST

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POLYSTYRENIC GEL
CHLORIDE FORM



SUGGESTED OPERATING CONDITIONS

pH Range	6.5 - 8.0
TOC	< 1 ppm
Free Chlorine	0 ppm max.
Total Dissolved Solids	< 1,000 ppm max.
Total Suspended Solids	< 1 ppm max.
Ferric Iron	< 0.3 ppm (mg/l)
COD	< 1 ppm (mg/l)
BOD	< 1 ppm (mg/l)
H ₂ S	0 ppm (mg/l)
Iron Bacteria	Not Present
Turbidity	< 5 NTU
Recommended Temperature Range	< 100°F
A. Up to 5 ppm Iron	
Bed Depth	30" min.
Service Flow Rate	3.8-4 gpm/cu. ft.
Backwash Bed Expansion	40-50%
Backwash Frequency	Daily
Backwash Time	15-20 minutes
B. Up to 10 ppm Iron	
Bed Depth	30" min.
Service Flow Rate	2 gpm/cu. ft.
Backwash Bed Expansion	40-50%
Backwash Frequency	Daily
Backwash Time	15-20 minutes

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