PRODUCT SPECIFICATION SHEET

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	Trimethylamine
Physical Form	Spherical Beads
Particle Size	16 to 50 US Mesh (297 - 1190µm)
% < 50 mesh (300µm)	< 1%
Minimum Sphericity	93%
Uniformity Coefficient	1.6
Temp Limit	250°F (121°C)
Moisture Retention	48% to 58%
Shipping Weight	43 - 45 lbs/ft³ (689 - 721 g/L)
Color	Black
Regenerability	Yes

PACKAGING OPTIONS

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

Revision 1.1
ResinTech, Inc.®

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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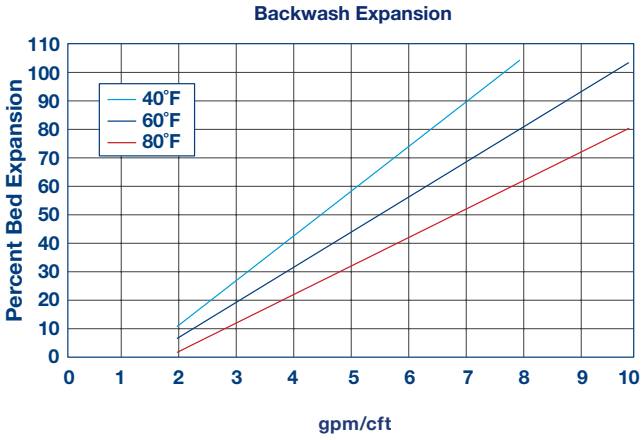

SUGGESTED OPERATING CONDITIONS

pH Range	> 6.5
Alkalinity	100 ppm minimum
Dissolved Oxygen	> 15% of Iron Content
TOC	< 1ppm
Free Chlorine	0.5 ppm max.
Total Dissolved Solids	2500 ppm max.
Total Suspended Solids	10 ppm max.
Recommended Temperature Range	40 °F-100°F
A. Up to 5 ppm Iron, Mn, H2S	
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, Mn, H2S	
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

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