

# SIR-1300

**Catalytic redox media, hybrid strong base type 1 anion, styrene/DVB gel, chloride form**

ResinTech SIR-1300 is a chloride form hybrid gel strong base anion resin. It has manganese oxide monoatomically 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.



**FEATURES & BENEFITS**

- Excellent Capacity With Daily Backwash
- Low Pressure Drop Due To Spherical Beads
- No Regenerant Required
- Long Performance Life

**APPLICATIONS**

- Ferrous Iron Reduction
- Cartridge Applications
- Iron Removal



Meets NSF/ANSI/CAN 61

Meets NSF/ANSI/CAN 372



SIR-1300

Polymer Matrix	Styrene/DVB	Minimum Sphericity (%)	90
Polymer Type	Gel	Uniformity	Gaussian
Ionic Form (as shipped)	Chloride (Cl <sup>-</sup> )	Uniformity Coefficient	1.60
Functional Group	Quaternary Amine	Moisture Retention (%)	40 to 52
Physical Form	Spherical Beads	Shipping Weight	43 - 45 lbs/cu.ft. (689 - 721 g/L)
Particle Size US Mesh (µm)	16 (1190) to 50 (297)	Color	Dark Brown to Black
< 50 mesh (300 µm) %	< 1%	Regenerable	Regenerable

**SUGGESTED OPERATING CONDITIONS**

Maximum Temperature	100°F (38°C)	Flow Rate	
Minimum Bed Depth	30 in. (76.2 cm)	Working Service	2-4 gpm/cu.ft. (16-32 BV/h)



**ADDITIONAL OPERATING CONDITIONS**

pH Range	6.5 to 8.0
TOC	< 1ppm
Free Chlorine	0 ppm max.
Total Dissolved Solids	<1000 ppm max.
Total Suspended Solids	<1 ppm max.
Recommended Temperature Range	< 100°F (38°C)

Ferric Iron	< .3 ppm (mg/L)
COD	< 1 ppm (mg/L)
BOD	< 1 ppm (mg/L)
H <sub>2</sub> S	0
Iron Bacteria	Not Present
Turbidity	< 5 NTU
TSS	< 1

**A.** Up to 5 ppm Iron

Minimum Bed Depth	30" minimum
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

Minimum Bed Depth	30" minimum
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.

**REGENERATION DETAILS**

With Oxygen from the Air

**PACKAGING****Standard**

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

42 cu.ft. Supersack | 1 cu.ft. Box | 7 cu.ft. Drum

**Metric**

1000L Supersack | 140L Drum

**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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