

RESINTECH SIR-1300 is a hybrid ion exchange resin media with redox properties to remove dissolved iron from potable and non-potable water. SIR-1300 oxidizes dissolved ferrous iron (FE²⁺) to insoluble ferric iron (FE³⁺). The resulting insoluble Iron particulates are effectively removed via filtration. The accumulated particulates can be removed with a simple backwash and air scour.

FEATURES & BENEFITS

- **EXCELLENT REMOVAL OF FERROUS (CLEAR WATER) IRON**
- **EXCELLENT PERFORMANCE WITH DAILY CLEANING**
- **SUPERIOR PHYSICAL STABILITY**
93% plus sphericity and high crush strengths together with carefully controlled particle distribution provides long life and low pressure drop
- **NO REGENERANT REQUIRED**
No salt or other chemicals are needed, however air scour is required to simultaneously add oxygen to the backwash water and loosen particulate iron so that it can be backwashed out of the tank.

FEEDWATER QUALITY GUIDELINES FOR A SUCCESSFUL INSTALLATION

TDS	Less than 1000 mg/L
Total Chlorine	Zero
Ferric Iron	< 0.3 mg/L
Tannins	Negligible
Hydrogen Sulfide	Zero
Iron Bacteria	Not present
pH	6.5 to 8.0
Suspended Solids	< 1 mg/L
Turbidity	< 5 NTU
COD	< 1 mg/L
BOD	< 1 mg/L
Temperature	< 100 F

SUGGESTED OPERATING CONDITIONS

Up to 5 ppm Iron	30" min.
Bed Depth	Normal 3-4 gpm/cuft
Service Flow Rate	5-7.5 gpm/cuft
Service Flow Peak	Every 600 gal/cuft with
Filter Cleaning Frequency	2 mg/L of Fe in the feed

Above 5 mg/L consult ResinTech technical support. For filter cleaning sequence consult ResinTech technical support or your technical sales representative.

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

PHYSICAL PROPERTIES

Resin Color	Black
Particle Size	16 to 50 mesh
Water Retention	48 to 58 percent
Uniformity Coefficient	1.6 approx.
Approximate Shipping Weight	43-46 lbs./cu.ft.

Note: Physical properties can be certified on a per lot basis, available upon request

