

SUPRA

SIR-800

REDOX MEDIA

**OXYGEN SCAVENGING
REDOX MEDIA
SULFITE FORM**

ResinTech SIR-800 is a neutral sulfite form gel strong base anion resin. It works to remove oxygen from water by converting sulfite to sulfate on the resin exchange sites. SIR-800 is intended for oxygen removal applications and for other processes such as aldehyde removal from alcohol where an immobile reducing agent is needed.

APPLICATIONS

- Oxygen Removal
- Redox Reactions

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS

Polymer Matrix	Styrenic Gel
Ionic Form	Sulfite
Functional Group	Quarternary Amine
Physical Form	Spherical Beads
Particle Size	16 to 50 US Mesh (297 - 1190 µm)
% < 50 mesh (300µm)	< 1%
Minimum Sphericity	95%
Uniformity Coefficient	1.6
Temp Limit	212°F (100°C)
Capacity (meq/mL)	0.8
Shipping Weight	43 - 45 lbs/ft³ (689 - 721 g/L)
Color	White to Yellow
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
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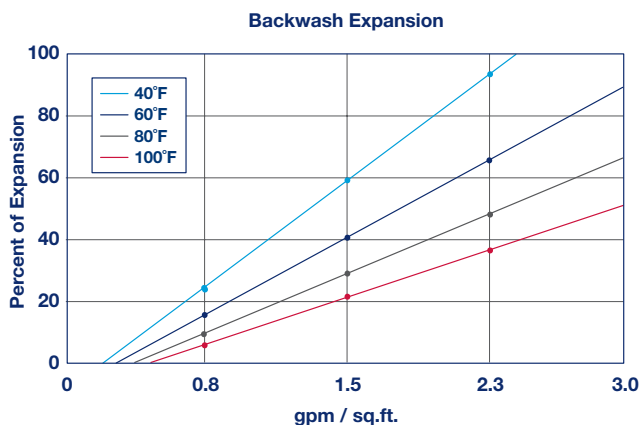
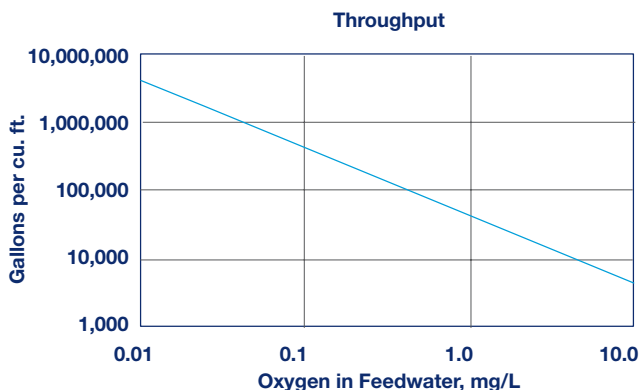
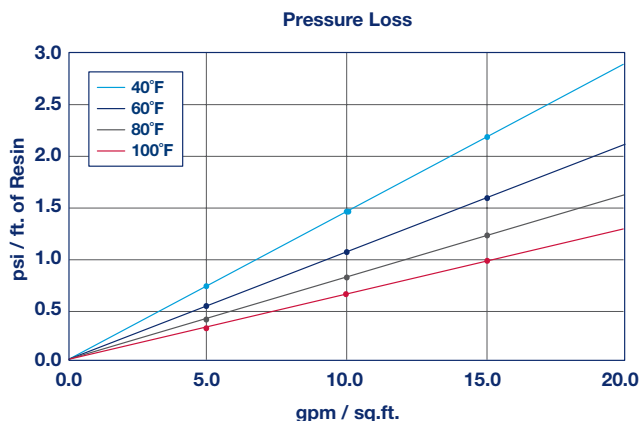
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SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	
Sulfite form	170°F
Minimum bed depth	24 inches
Backwash expansion	25 to 50 percent
Maximum pressure loss	20 psi
Operating pH range	4 to 10 SU
Service flow rate	
Once through	1 to 2 gpm/cu.ft.
Recycle	2 to 10 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

OXYGEN REMOVAL

ResinTech SIR-800 is a strong base anion resin supplied in the sulfite salt form for removing oxygen from water. Sulfite on the resin reacts with oxygen (in the water) to form sulfate on the resin. Virtually complete removal of oxygen can be obtained if the flow rate and pH are carefully controlled. The rate constant for oxygen removal slows as pH is increased beyond neutral. SIR-800 is normally used in recycle applications where the feed is partially deoxygenated water. For once-through applications where complete removal of oxygen is required, a reduced flow rate and/or reduced pH is necessary.

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