

# 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	
<b>Polymer Matrix</b>	Styrenic Gel
<b>Ionic Form</b>	Sulfite
<b>Fuctional Group</b>	Quarternary Amine
<b>Physical Form</b>	Spherical Beads
<b>Particle Size</b>	16 to 50 US Mesh (297 - 1190 µm)
<b>% &lt; 50 mesh (300µm)</b>	< 1%
<b>Minimum Sphericity</b>	95%
<b>Uniformity Coefficient</b>	1.6
<b>Temp Limit</b>	212°F (100°C)
<b>Capacity (meq/mL)</b>	0.8
<b>Shipping Weight</b>	43 - 45 lbs/ft <sup>3</sup> (689 - 721 g/L)
<b>Color</b>	White to Yellow
<b>Regenerability</b>	Yes

### PACKAGING OPTIONS

- 500 ml samples
- 1 ft<sup>3</sup> bags
- 1 ft<sup>3</sup> boxes
- 1 ft<sup>3</sup> drums
- 7 ft<sup>3</sup> drums
- 42 ft<sup>3</sup> supersacks

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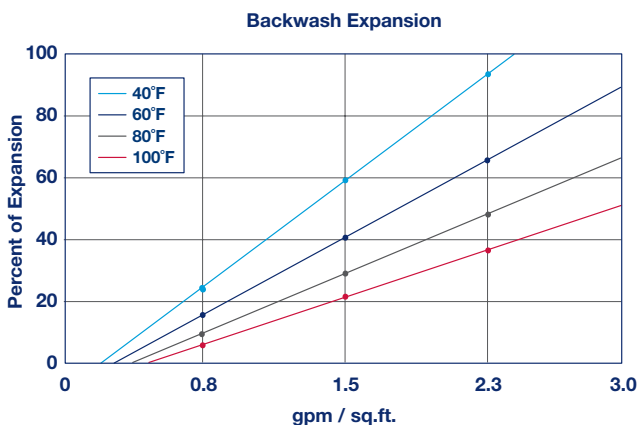
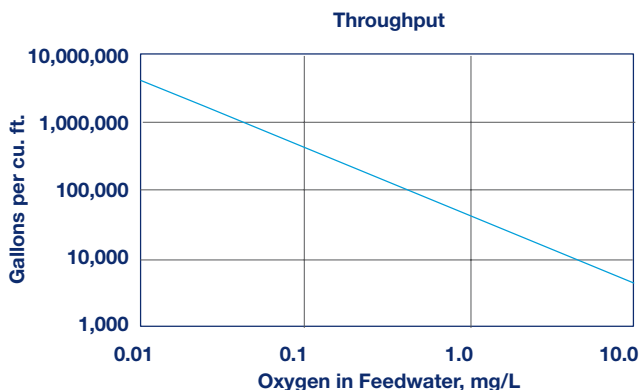
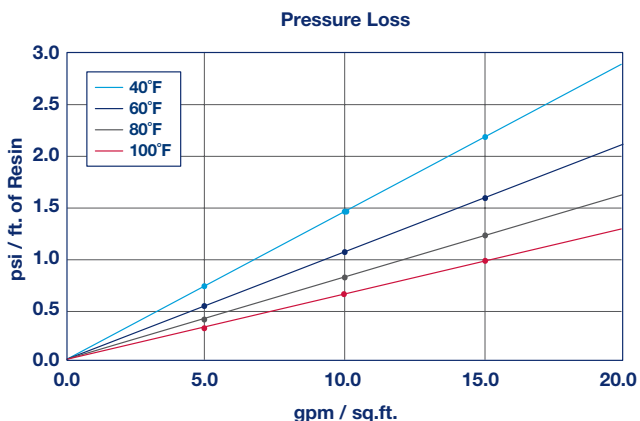


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### SUGGESTED OPERATING CONDITIONS

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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