PX-800

Grade: Standard

Oxygen scavenging, strong base anion gel, sulfite form

ResinTech PX-800 is a sulfite form strong base gel anion resin. PX-800 removes oxygen from water by converting sulfite to sulfate on the resin exchange sites. ResinTech PX-800 is intended for oxygen removal applications and for other processes where an immobile reducing agent is needed. PX-800 is supplied in the neutral sulfite form.

FEATURES & BENEFITS

- Supplied in the sulfite form
- No ionic dumping
- Low odor
- Special packaging available to extend shelf life
- Controlled particle size

APPLICATIONS

- Oxygen Removal

PHYSICAL PROPERTIES

Polymer Type	Gel
Ionic Form (as shipped)	Sulfite (SO_3^{2-})
Functional Group	Quaternary Amine
Physical Form	Spherical Beads
Uniformity Coefficient	1.60
Particle Size	16-50 US mesh (297-1190µm)
< 50 mesh (300 µm) %	< 1%
Minimum Sphericity (%)	85
Capacity (meq/mL)	0.80
Moisture Retention (%)	42 to 51
Shipping Weight	43 - 45 lbs/cu.ft. (689 - 721 g/L)
Color	Amber

SUGGESTED OPERATING CONDITIONS

Minimum Bed Depth	24 in. (61.0 cm)
Maximum Pressure Loss	20 psi (138 kPa)
Backwash Expansion (%)	25 to 50
Operating pH Range	4.0 to 10.0
Flow Rate	
Working Service	1-2 gpm/cu.ft. (8-16 BV/h)

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INNOVATIONS IN ION EXCHANGE

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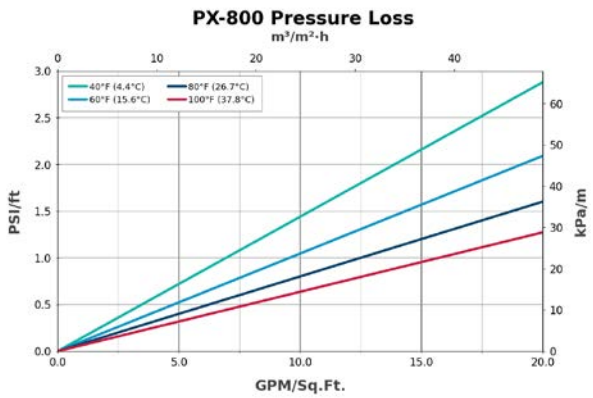
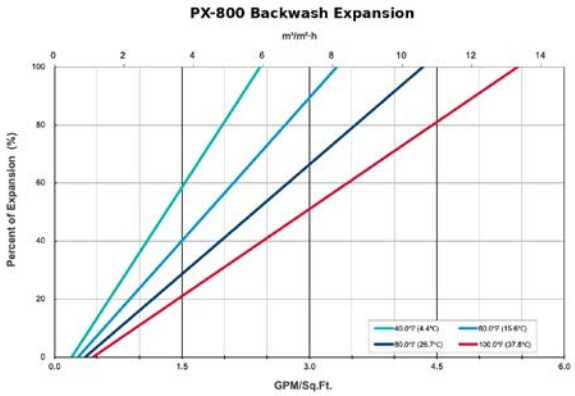
PRESSURE LOSS



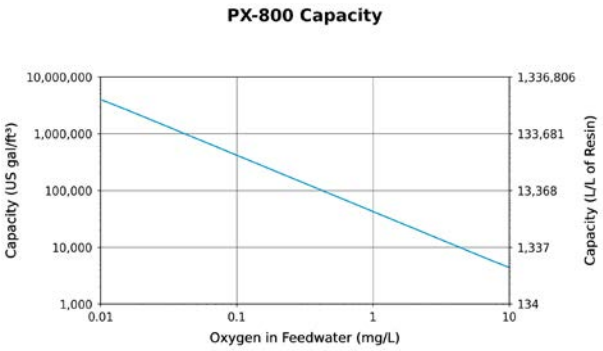
The graph above shows the expected pressure loss of ResinTech PX-800 per foot of bed depth as a function of flow rate at various temperatures.

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech PX-800 as a function of flow rate at various temperatures.

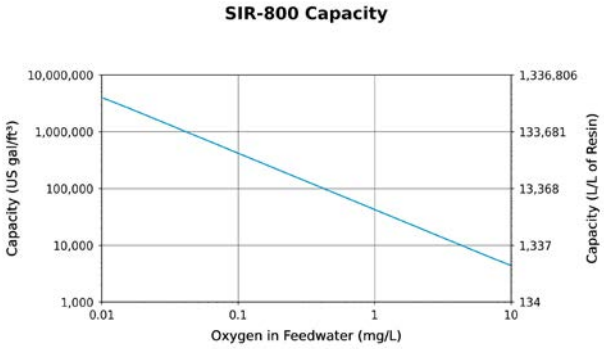
CAPACITY



Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO3, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been applied.

OXYGEN REMOVAL

ResinTech **PX-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. **PX-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.



Throughput values are for oxygen only. Chlorine and other oxidants will reduce throughput by using up capacity. Sulfite form anion resin is susceptible to exhaustion from contact with air. Minimize handling in order to preserve capacity. No engineering downgrade has been applied.

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CERTIFICATIONS

REACH Registered

PACKAGING

Standard

1 cu.ft. Bag | 7 cu.ft. Drum
200L Drum | 25L Bag

Metric

42 cu.ft. Supersack | 5 cu.ft. Drum
1000L Supersack | 140L Drum

Shipping Weight

43 - 45 lbs/cu.ft. (689 - 721 g/L)

Minimum Order Volume: 210 (cu.ft.)

MATERIAL SAFETY DATA SHEETS (MSDS)

Material Safety Data Sheets (MSDS) 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

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