SPECIALTY RESIN

PROSELECT™ TANNIN

ProSelect Tannin (P/N ER20001) is the choice for color, organics, and tannin contaminated waters. It works as an organic screen, either as a stand-alone prefilter for a softener, or in some applications as a media which is simply added to an existing softener. ProSelect Tannin will sit on top of the existing softening bed to protect it and remove organic (heme) iron as well. ProSelect Tannin is iron resistant, regenerates with salt, and is the resin of choice for heme iron applications.

FEATURES

- Complies with USDA & FDA regulations (paragraph 21 CFR173.25) for potable water applications *
- Reversible exchange of organics
- Superior physical stability
- Certified to NSF/ANSI Standard 61

* Prior to first use for potable water, resin should be backwashed for a minimum of 20 minutes, followed by 10 bed volumes of downflow rinse.

Physical Properties

Polymer Structure	Styrene/DVB
Functional Group	Trimethylamine
Physical Form	Spherical beads
Resin Color	Amber
Ionic Form, as shipped	Chloride
Total Capacity	
Chloride Form	0.65 meq/mL minimum
Water Retention	
Chloride Form	70 to 80%
Screen Size Distribution	20 to 50 (U.S. mesh)
Fines Content (<50 mesh)	1% maximum
Sphericity	93% minimum
Uniformity Coefficient	1.6 approximate
Approximate Shipping Weight	
Chloride Form	41 lb/cu.ft.

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

Suggested Operating Conditions

Maximum Continuous Temperature	
Chloride Form	170°F (77°C)
Minimum Bed Depth	24 inches
Backwash Expansion (see next page)	25 to 50%
Pressure Loss (see next page)	20 psi maximum
Operating pH Range	4 to 10 SU
Regenerant Concentration †	
Salt Cycle	5 to 10% NaCl
Optional Hydroxide Addition	0.1 to 0.5% NaOH
Regenerant Level	10 lb/cu.ft. minimum
Regenerant Flow Rate	0.1 to 0.5 gpm/cu.ft.
Regenerant Contact Time	60 minutes minimum
Displacement Flow Rate	Same as Dilution Flow
Displacement Volume	10 to 15 gal/cu.ft
Rinse Flow Rate	Same as Service Flow
Rinse Volume	35 to 60 gal/cu.ft.
Service Flow Rate	
Average Flow	1 to 2 gpm/cu.ft.
Peak Flow	7 gpm/cu.ft. maximum

† **CAUTION: DO NOT MIX ION EXCHANGE RESINS WITH STRONG OXIDIZING AGENTS**. Nitric acid and other strong oxidizing agents can cause explosive reactions when mixed with organic materials such as ion exchange resins.

Note: These suggestions and data are based on information we believe to be reliable. However, we do not make any guarantee or warranty. We caution against using these products in any unsafe manner or in violation of any patents. Further, we assume no liability for the consequences of any such actions.

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MEMBER Water Quality ASSOCIATION

FORM 1165
EFFECTIVE
OCTOBER 2017

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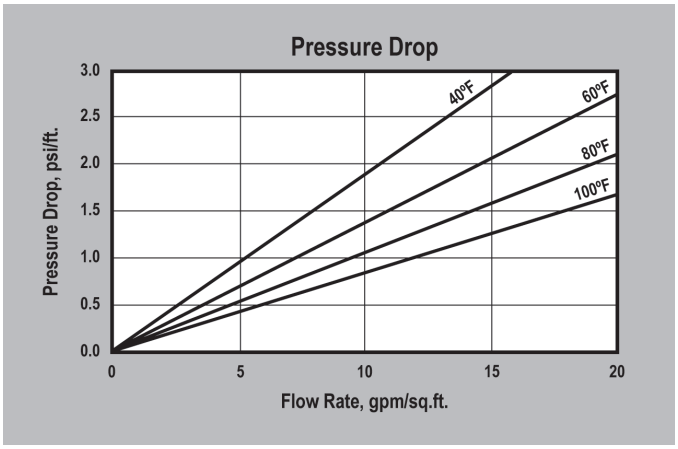
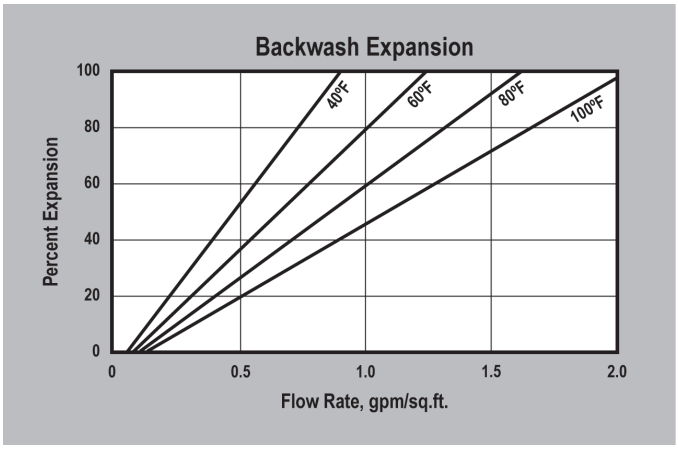
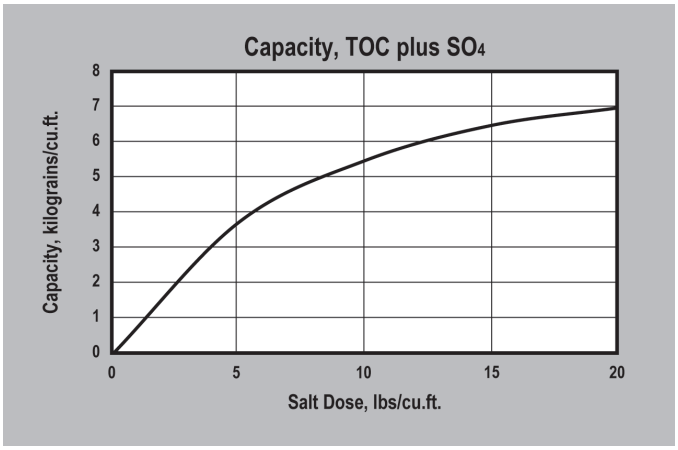


PRESSURE DROP — The graph above shows the expected pressure loss per foot of bed depth as a function of flow rate at various temperatures.



BACKWASH — After each cycle the resin bed should be backwashed at a rate that expands the bed 25 to 50 percent. The graph above shows the expansion characteristics as a function of flow rate at various temperatures.



CAPACITY — The graph above is based on 2 gpm/cu.ft. flow rate, pH near neutral, and 36 inch minimum bed depth. Capacity is for TOC plus sulfate. No engineering downgrade has been applied.

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