



A-500P A-850 & A-860 Tannin Removal Resins

Ion Exchange Resins for the reversible removal of naturally occurring tannin organics (color bodies) in potable waters.

- **Purolite A-500 P, A-850, and A-860** are strong base anion resins for tannin removal from potable waters. All resins are functionally the same. A-850 is a gel resin. A-500 P and A-860 are macroporous resins. Physically, the A-860 is a porous version of the A-850 gel. At times, one resin may be more effective than the others depending on the area of the country.
- The resins are rated for tannin removal at 2000 ppm - gallons per cubic foot. To determine the gallon volume that can be had per cubic foot, divide the figure of 2000 by ppm of tannins in the water. If only a fraction of a cubic foot is used, then the water produced will be this fraction of the volume.
- Service flow rate is 2 - 5 gpm per cubic foot. Pressure drop in psi per foot of resin depth is 0.18 x gpm per sq. ft.
- The resin regenerates with salt. The regenerant level is 8 pounds of salt per cubic foot. The salt regenerant solution to the resin bed should be 8% plus and the contact time 30 minutes.
- Backwash flow rate is 2 - 3 gpm per sq. ft for a minimum backwash time of 20 minutes. An upper basket is recommended. Resin bead size is 16 to 50 US mesh.
- In field installations, the tannin removal resin can be put in as the top portion of the softener resin bed. In this type of installation, all backwash and regeneration conditions would be those specified for the tannin resin. This means modifying softener system by cutting backwash flow in half and doubling backwash time. Use smallest brine injector.
- Avoid overrunning the resin as it is sometimes difficult to clean up. Regenerate as needed and on the conservative side. Never exceed three days without a regeneration. All standard available resin cleaners will help and not harm the tannin removal resins. Iron should first be removed from water when it is present and over 0.3 mg/l.



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