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Episode 38 Purolite SST Resin

Purolite manufactures a line of SST resin. SST stands for Shallow Shell Technology or Salt Savings Technology.

How it differs from standard resin.

- Standard bead is completely activated from the core out to the surface of the bead.
- SST - Only 60% of the radius of the bead is active.
 - Active sites for SST equal about 94% of the total bead volume vs. 100% for standard.
- SST resin has an inner core. Standard resin does not.

How it works.

The diffusion path that the ions, in the case of softener – calcium and magnesium – is reduced. These ions don't go all the way to the core. And it's more efficient because the diffusion path is slower.

Typical regeneration service cycles don't allow enough time for brine to effectively convert 100% of a standard resin bead. Because SST resins have a core, regeneration service cycles are more effective and efficient. More of the calcium and magnesium collected during service cycle is exchanged.

Benefits

- Rate of exchange going in and out of the bead is much faster resulting in a cleaner bead.
- Up to 20% reduction in salt.
- Less rinse water
 - Slow rinse one bed volume vs. two to three bed volumes for standard resin.
 - Fast rinse one and a half bed volumes vs. three to five bed volumes for standard.
- Quantifiable payback. Even though SST is twice the cost of standard cation, the typical payback is six to eight months.
 - Rinse water
 - Wastewater
 - Salt
- Physically strong
- Tolerates very high flow rates
- Effectively removes ferrous iron when applied properly.

Purolite Specification [SSTC6000E](#)



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