

Purolite Shallow Shell™ SSTC60 ion exchange resin for softening and iron removal

To achieve improved softening performance, Purolite perfected an advanced resin bead structure. It's called Shallow Shell Technology, or SST.® Shallow Shell™ SSTC60 is a high-efficiency softening resin designed to improve softening performance. Each bead has an active outer shell with an inactive core. The structure shortens the diffusion path—resulting in faster ion exchange. This is particularly important during regeneration as it provides more efficient utilization of the regenerant, higher throughput, and more complete regeneration with less leakage.

★ NSF certified	Well suited for industrial, hotel, pharmaceutical, domestic, and food & beverage water softening applications	Produce purer water
★ Salt savings	Reduction of 20 – 50% in commercial salt quantity required for regeneration	Reduce operating costs and discharge less chemicals into the environment
★ Water savings	Saves from 30 – 50% on rinse water and reduction in salt dilution water	Use less water; 40 – 80% reduction in volume of waste water and disposal costs
★ Iron removal	Prevents resin fouling from heavy metals	Perform fewer change-outs; durable resin resists fouling, osmotic shock and oxidation for extended resin life
★ High hardness	Effective for hardness levels in excess of 700 ppm and up to 2,000 ppm	Reduce maintenance costs and extend equipment life; an economical solution for treating hard water with high TDS

Key Advantages of Shallow Shell™ Technology Resins versus traditional resins

- Significantly improves economics in water softening processes
- Lower leakages at same regenerant dosage compared to traditional resin
- Significant reduction in salt dosage to achieve same leakage
- High capacity and increased throughput for optimal system performance
- Compatible with co-flow, counter-flow and packed bed systems

Suggested Applications for Shallow Shell™ SSTC60

- Waste water and Zero Liquid Discharge projects
- High TDS / high hardness water softening
- Softening of waters with high iron levels
- Removal of heavy metals and hardness prior to RO systems
- Water- and salt-saving green initiatives

Supports
ISO 14001:2004
initiatives
toward environmental
management

