

PRODUCT APPLICATION GUIDE

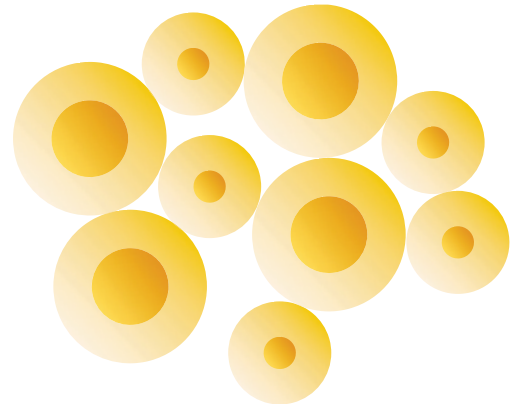
Purolite Shallow Shell™ SSTC60 resin operated in the Al³⁺ form for selective fluoride removal



Purolite's SSTC60 operated in Al³⁺ form is a Shallow Shell™ technology resin featuring a solid core and functionalized outer shell specially designed for the selective removal of fluoride from water and waste water. The unique Shallow Shell design allows for effective removal of fluoride ions during the service cycle and efficient reversibility and clean-up of the resin during regeneration to give predictable and consistent performance and low leakage over time.

Advantages

- Highly selective for fluoride
- Pre and post correction of pH in normal water not required
- Compatible over a wide range of pH
- Suitable for operation in broad range of temperatures up to 60°C (max.)
- High bead strength reduces risk of fines contamination in potable water
- Can be operated for up to 20 ppm of fluoride in the feed
- NSF/ANSI 61, Kosher and Halal Certified; U.S. FDA compliant



TYPICAL PHYSICAL AND CHEMICAL CHARACTERISTICS

Application	Selective fluoride removal with Shallow Shell™ technology
Polymer structure	polystyrene crosslinked with divinylbenzene
Ionic form as shipped	Na ⁺
Moisture retention, Na⁺ Form	38 – 46%
Particle size range	300 – 1200µm
Uniformity coefficient (max.)	1.7
Reversible swelling, Na⁺ → H⁺ (max.)	8%
Specific gravity	1.2 (Na ⁺ form)
Shipping weight (approx.)	780 – 820 g/L
Temperature limit	60°C (140°F)
Fluoride capacity	1 – 5 g F/L
Service flow	10 – 15 BV/hr
Minimum bed depth	800 mm (400 mm for hand pump)
Maximum bed depth	1,500 mm
Regeneration level— 100 % alum or PAC	100 – 150 g/L
Maximum limit of fluoride in the feed	20 ppm
pH range	5.5 to 8.5
Resin life	5 years



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P-000158-50PP-1017-PCO

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