

# Purolite SST<sup>®</sup> Anion Resins improve demineralization efficiency and reduce operational costs

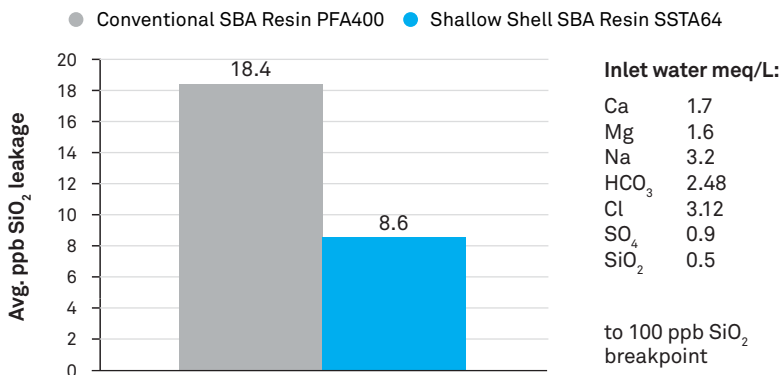
The advanced structure of Purolite's Shallow Shell™ anion technology leaves the center of each gel bead inactive, eliminating the sites that take the longest to exchange, are the most difficult to regenerate and are the most susceptible to fouling. Plus, the beads resist osmotic shock, extending the life of the resin.

## Advantages

- Same throughput with 15% less chemical; lowers operating expenses
- Significantly reduces rinse water
  - 30% savings for counter-flow operation
  - 50% savings for co-flow operation
- Minimizes silica leakage
  - 50% less in co-flow
  - 20% less in counter-flow
- 10% higher operational capacity with same chemical dosage
  - Smaller CAPEX for new plants
- Superior organic fouling resistance compared to conventional gel resins
- Suitable for co-flow, counter-flow and packed bed systems
- Supports ISO 14001:2015 initiatives toward environmental management and impact
  - uses less chemical regenerants and generates less waste

### 50% Lower Silica Leakage Using 15% Less Caustic

Average silica leakage co-flow demineralization – 10 cycles  
(Caustic dosage: PFA400 80g/L; SSTA64 68g/L)

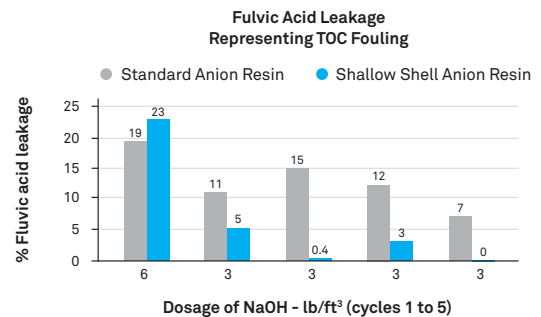
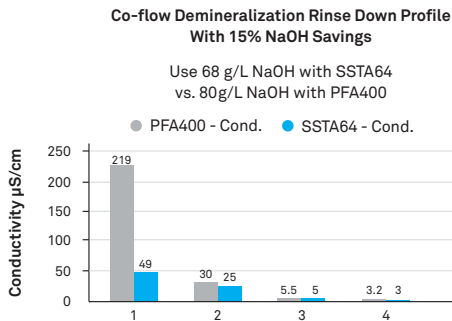
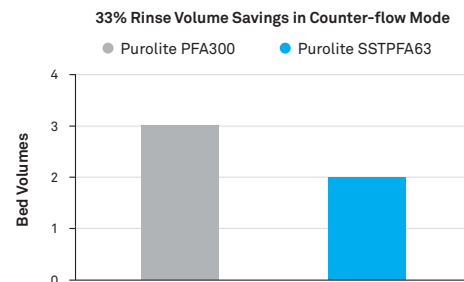
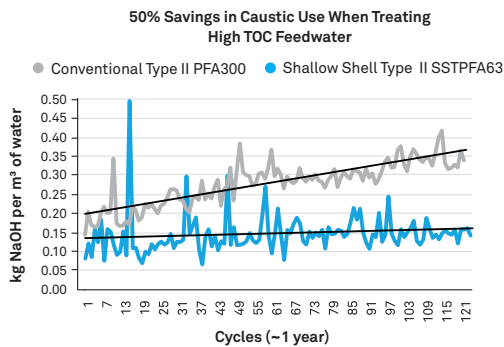


▶ **Watch our Shallow Shell Technology video at [www.bit.ly/shallow-shell](http://www.bit.ly/shallow-shell)**

# It is possible to cut operational costs without sacrificing performance.

The charts below demonstrate real-world examples for how Purolite's Shallow Shell Technology enables unsurpassed regeneration efficiency, lower leakage from silica and TOCs, and reduced rinse water requirements for industrial demineralization applications.

Contact your regional technical sales expert to learn how Purolite SST resins can make your demineralization system more effective, efficient and environmentally sound.



**Americas**  
 150 Monument Road  
 Bala Cynwyd, PA  
 19004  
 T +1 800.343.1500  
 T +1 610.668.9090  
 F +1 484.384.2751  
 Americas@purolite.com

**EMEA**  
 Purolite Ltd  
 Unit D  
 Llantrisant Business Park  
 Llantrisant, Wales, UK  
 CF72 8LF  
 T +44 1443 229334  
 F +44 1443 227073  
 emea@purolite.com

**Asia Pacific**  
 Room 707, C Section  
 Huanglong Century Plaza  
 No.3 Hangda Road  
 Hangzhou, Zhejiang, China 310007  
 T +86 571 876 31382  
 F +86 571 876 31385  
 AsiaPacific@purolite.com

**FSU**  
 Purolite Ltd  
 Office 6-1  
 36 Lyusinovskaya Str.  
 Moscow, Russia  
 115093  
 T +7 495 363 5056  
 F +7 495 564 8121  
 fsu@purolite.com

