

## PRODUCT DATA SHEET

# Shallow Shell™ SSTC104Na

Polyacrylic Porous, Weak Acid  
Cation Resin, Sodium form, Shallow  
Shell™ Technology\*

## PRINCIPAL APPLICATIONS

- Softening - High TDS water
- Softening - Aqueous organic solutions

## ADVANTAGES

- Highest regeneration efficiency
- High operating capacity
- Lower rinse volumes
- Excellent physical and chemical stability

## SYSTEMS

- Coflow regenerated systems
- Counterflow regenerated systems

## TYPICAL PACKAGING

- 1 ft³ Sack
- 25 L Sack
- 5 ft³ Drum (Fiber)
- 1 m³ Supersack
- 42 ft³ Supersack

\* SST® is a registered trademark of Purolite LLC

## TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Porous crosslinked polyacrylic acid
Appearance	Spherical Beads
Functional Group	Carboxylic Acid
Ionic Form	Na <sup>+</sup>
Total Capacity (min.)	5.5 eq/kg (H <sup>+</sup> form)
Moisture Retention	36 - 44 % (H <sup>+</sup> form)
Particle Size Range	300 - 1600 µm
< 300 µm (max.)	1 %
Reversible Swelling, H <sup>+</sup> → Ca <sup>2+</sup> (max.)	20 %
Reversible Swelling, H <sup>+</sup> → Ca <sup>2+</sup> (operating)	7 %
Reversible Swelling, H <sup>+</sup> → Na <sup>+</sup> (max.)	60 %
Specific Gravity	1.17
Shipping Weight (approx.)	710 - 760 g/L (44.4 - 47.5 lb/ft³)
Temperature Limit	120 °C (248.0 °F)



Algeria  
Australia  
Bahrain  
Brazil  
Canada  
China  
Czech Republic  
France  
Germany

India  
Indonesia  
Israel  
Italy  
Japan  
Jordan  
Kazakhstan  
Korea  
Malaysia

Mexico  
Morocco  
New Zealand  
Poland  
Romania  
Russia  
Singapore  
Slovak Republic  
South Africa

Spain  
Taiwan  
Tunisia  
Turkey  
UK  
Ukraine  
USA  
Uzbekistan



**Americas**

Puro-lite  
2201 Renaissance Blvd.  
King of Prussia, PA 19406  
T +1 800 343 1500  
T +1 610 668 9090  
F +1 800 260 1065  
americas@puro-lite.com

**EMEA**

Puro-lite Ltd.  
Unit D  
Llantrisant Business Park  
Llantrisant, Wales, UK  
CF72 8LF  
T +44 1443 229334  
F +44 1443 227073  
emea@puro-lite.com

**FSU**

Puro-lite Ltd.  
Office 6-1  
36 Lyusinovskaya Str.  
Moscow, Russia  
115093  
T +7 495 363 5056  
F +7 495 564 8121  
fsu@puro-lite.com

**Asia Pacific**

Puro-lite China Co. Ltd.  
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@puro-lite.com

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Puro-lite expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

