

Macroporous Strong Acid Cation Exchange Resin - Su

Purolite C150S is a macroporous poly(styrene sulphonate) cation-exchange resin with excellent resistance to both osmotic and thermal shock. Its sponge-like structure permits higher rates of diffusion of the often complex nitrogenous impurities taken up by strong-acid resins during demineralisation of aqueous solutions containing organics, and facilitates their removal on regeneration. Partial demineralisation of concentrate syrups can also be undertaken with Purolite C150S in the ammonium form together with a suitable strong-base resin such as Purolite A500PS in the carbonate form. With the macroporous Purolite C150S, continuous softening of sugar solutions by the Asahi process is feasible. Here, no gel resin is normally recommended because of the extra osmotic and mechanical stresses imposed by the external regeneration of the resin and its subsequent return to service.

**Basic Features:**

Application	Sugar Solutions
Polymer Structure	Macroporous polystyrene crosslinked with divinylbenzene
Appearance	Spherical beads
Functional Group	Sulphonic acid
Ionic form as shipped	Na <sup>+</sup>

**Typical Physical and Chemical Characteristics:**

Total Capacity (min.)	Na <sup>+</sup>	1.80 eq/l
Total Capacity (min.)	Na <sup>+</sup>	39.30 kGr/ft <sup>3</sup>
Moisture Retention	Na <sup>+</sup>	48-53 %
Mean Size Typical		0.65-0.90 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	Na <sup>+</sup> → H <sup>+</sup>	4 %
Specific Gravity		1.25 g/ml
Shipping Weight (approx.)		790-825 g/l
Shipping Weight (approx.)		49.4-51.6 lbs/ft <sup>3</sup>
Temp Limit	H <sup>+</sup>	120 °C
Temp Limit	H <sup>+</sup>	250 °F
Temp Limit	Na <sup>+</sup>	140 °C

**USA**  
Telephone: (1) 610-668-9090  
Fax: (1) 610-668-8139  
Email: info@puroliteusa.com

**Europe**  
Telephone: +44 1443 229334  
Fax: +44 1443 227073  
Email: sales@purolite.com

**Asia Pacific**  
Telephone: +86 571 876 31385  
Fax: +86 571 876 31385  
Email: pultalan@purolitechina.com

**PUROLITE® C150S**  
**Strong Acid Cation Macroporous**

Temp Limit	Na <sup>+</sup>	285 °F
pH Limits		0-14

**USA**  
Telephone: (1) 610-668-9090  
Fax: (1) 610-668-8139  
Email: [info@puroliteusa.com](mailto:info@puroliteusa.com)

**Europe**  
Telephone: +44 1443 229334  
Fax: +44 1443 227073  
Email: [sales@purolite.com](mailto:sales@purolite.com)

**Asia Pacific**  
Telephone: +86 571 876 31385  
Fax: +86 571 876 31385  
Email: [pultalan@purolitechina.com](mailto:pultalan@purolitechina.com)