PUROLITE
ION EXCHANGE RESINS

Product Data Sheet

PUROLITE® C160S

Strong Acid Cation Macroporous

Macroporous Strong Acid Cation Exchange Resin - High Capacity

Purolite C160S is a macroporous poly(styrene sulphonate) cation-exchanger designed to withstand strenuous mechanical, osmotic, and thermal conditions such as those found, for example, in the Quentin process in which sugar solutions of around 70° Brix are used at correspondingly high temperatures. Its sponge-like structure permits higher rates of diffusion of the often complex nitrogenous materials taken up by strong-acid resins during demineralization, and facilitates their removal on regeneration.

Purolite C160S can be used in the ammonium form for partial demineralization of concentrate syrups, and also in the Gryllus process, both of which require a resin of superior resistance to thermal and osmotic shock.

Basic Features:

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

Typical Physical and Chemical Characteristics:

Total Capacity (min.)	Na^+	2.30 eq/l
Total Capacity (min.)	Na^+	50.22 kGr/ft^3
Moisture Retention	Na^+	35-40 %
Mean Size Typical		0.65-0.90 mm
Uniformity Coefficient (max.)		1.70
Reversible Swelling (max.)	$Na^+ \rightarrow H^+$	4 %
Specific Gravity		1.30 g/ml
Shipping Weight (approx.)		820-860 g/l
Shipping Weight (approx.)		51.3-53.8 lbs/ft^3
Temp Limit	H^+	120 °C
Temp Limit	H^+	250 °F
Temp Limit	Na^+	140 °C
Temp Limit	Na^+	285 °F
pH Limits		0-14

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