



AMBERLITE® 200C Na

Industrial Grade Strong Acid Cation Exchanger

PRODUCT DATA SHEET

AMBERLITE 200C Na is a premium grade strong acid macroreticular cation exchange resin based on sulfonic acid exchange groups on a polystyrenic matrix. Its high degree of crosslinking imparts superior stability to the macroreticular structure of the resin. This gives it far greater resistance to chemical oxidation and higher stability to breakdown from

mechanical, thermal or osmotic shocks than any other commercially available cation resins. AMBERLITE 200C Na is recommended for make up demineralisation and mixed bed units, hot process softeners, chemical processing, metal treatment applications and systems involving appreciable oxidative potential or high temperatures.

PROPERTIES

Matrix _____	Styrene divinylbenzene copolymer
Functional groups _____	SO ₃ ⁻
Physical form _____	Beige beads
Ionic form as shipped _____	Na ⁺
Total exchange capacity ^[1] _____	≥ 1.70 eq/L (Na ⁺ form)
Moisture holding capacity ^[1] _____	46 - 52 % (Na ⁺ form)
Shipping weight _____	800 g/L
Specific gravity _____	1.22 to 1.26 (Na ⁺ form)
Particle size _____	
Uniformity coefficient _____	≤ 1.70
Harmonic mean size _____	600 - 850 µm
Fine contents ^[1] _____	< 0.355 mm : 1.0 % max
Coarse beads _____	> 1.180 mm : 5.0 % max
Maximum reversible swelling _____	Na ⁺ → H ⁺ : 6 %

^[1] Contractual value.

Test methods are available on request.

SUGGESTED OPERATING CONDITIONS

pH range _____	0 - 14
Service flow rate _____	5 to 40 BV*/h
Regenerant _____	HCl H ₂ SO ₄ NaCl
Flow rate (BV/h) _____	4 to 5 2 to 20 2 to 8
Concentration (%) _____	5 to 8 0.7 to 6 10
Level (g/L) _____	40 to 100 40 to 200 80 to 300
Minimum contact time _____	30 minutes
Slow rinse _____	2 BV at regeneration flow rate
Fast rinse _____	2 to 4 BV at service flow rate

* 1 BV (Bed Volume) = 1 m³ solution per m³ resin

