AMBERLITE® 200C Na

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 polystyrene 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 shock than any other commercially available cation resin. AMBERLITE 200C Na is recommended for make up demineralization 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	Sulfonic Acid
Physical Form	Beige beads
Ionic Form as shipped	Na^+
Shipping weight	50 lbs/ft^3
Total Exchange Capacity	1.7 meq/ml minimum (Na^+ form)
Moisture Holding Capacity	46 to 52% (Na^+ form)
Harmonic mean size	060 to 085 mm
Uniformity coefficient	1.7 maximum
Screen Grading	16 to 45 mesh (US Std Screens)
Screen Analysis	5 % maximum on 16 mesh (US Std Screens) 1 % maximum thru 45 mesh (US Std Screens)
Maximum Reversible Swelling	$Na^+ \rightarrow H^+$: approximately 6%

Test methods are available on request.

SUGGESTED OPERATING CONDITIONS

pH Range	0 to 14		
Maximum Operating Tempeature	275 °F		
Minimum Bed Depth	24 inches		
Service Flow Rate	0.5 to 5 gpm/ft^3		
Service Flow Rate (velocity)	10 to 50 gpm/ft^2		
Regenerants (100 % basis)	**HCl**	**H_2SO_4**	**NaCl**
Flow rate (gpm/ft^3)	0.5 to 1.0	0.5 to 1.0	0.5 to 1.0
Concentration (%)	4 to 10	1 to 5	10
Level (lbs/ft^3)	2 to 8	4 to 12	4 to 19
Minimum Contact Time	30 minutes		
Slow Rinse	15 gal/ft^3 at regeneration flow rate		
Fast Rinse	30 to 60 gal/ft^3 at service flow rate		

LIMITS OF USE

AMBERLITE 200C Na is suitable for industrial used. For other specific applications such as *pharmaceutical, food processing or potable water applications*, it is recommended that all potential users seek advice from Rohm and Haas Company in order to determine the best resin choice and optimum operating conditions.

HYDRAULIC CHARACTERISTICS

Figure 1 shows the pressure drop data for AMBERLITE 200C Na, as a function of service flow rate and water temperature. Pressure drop data are valid at the start of the service run with clear water and a correctly classified bed. Figure 2 shows the bed expansion of AMBERLITE 200C Na, as a function of backwash flow rate and water temperature.

Fig. 1 : Pressure Drop

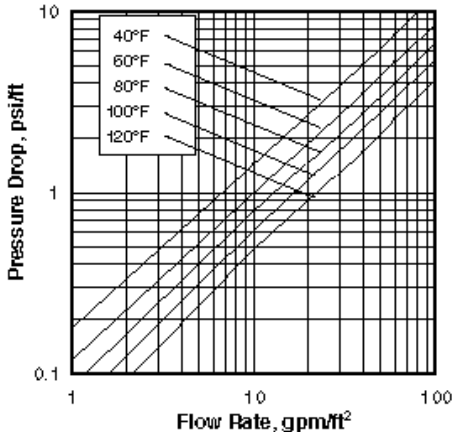
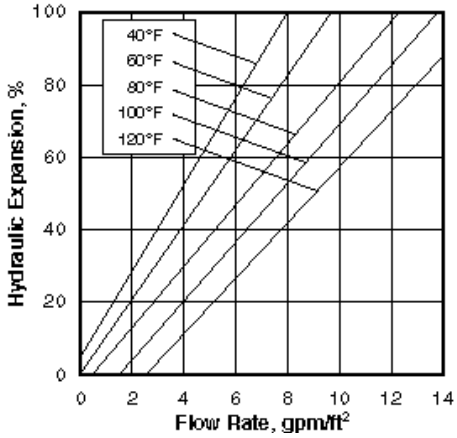


Fig. 2 : Bed Expansion



Rohm and Haas/Ion Exchange Resins - Philadelphia, PA - Tel. (800) RH AMBER - Fax: (215) 409-4534
Rohm and Haas/Ion Exchange Resins - 75579 Paris Cedex 12 - Tel. (33) 1 40 02 50 00 - Fax : 1 43 45 28 19

WEB SITE: http://www.rohmhaas.com/ionexchange