AMBERJET® 1200 Na

Strong Acid Cation Exchanger

PRODUCT DATA SHEET

AMBERJET 1200 Na is a uniform particle size, high quality, strong acid cation exchanger designed for use in all water treatment applications : softening as well as demineralization. The uniformity and mean particle size of AMBERJET 1200 Na have been optimized for use in industrial equipment.

In H^+ cycle, it can be used in mixed bed applications paired with AMBERJET 4200 Cl. AMBERJET 1200 Na can be directly substituted for conventional gel cation exchange resin in new equipment and in rebeds of existing installations.

PROPERTIES

Matrix	Styrene divinylbenzene copolymer
Functional Groups	Sulfonic acid
Physical Form	Insoluble, amber beads
Ionic Form as Shipped	Sodium
Total Exchange Capacity	2.0 meq/ml minimum (Na^+ form)
Moisture Holding Capacity	43 to 47% (Na^+ form)
Shipping Weight	53 lbs/ft^3
Harmonic Mean Size	0.57 to 0.67 mm
Uniformity Coefficient	1.2 maximum
Maximum Reversible Swelling	$Na^+ \rightarrow H^+$: approximately 10 %

Test methods are available on request.

SUGGESTED OPERATING CONDITIONS

pH Range	0 to 14		
Maximum Operating Tempeature	250 °F		
Minimum Bed Depth	24 inches minimum		
Service Flow Rate	1 to 6 gpm/ft^3		
Maximum Service Velocity	25 gpm/ft^2		
Regenerants (100 %)	**NaCl**	**HCl**	**H_2SO_4**
Flow Rate (gpm/ft^3)	2 to 8	2 to 5	2 to 20
Concentration (%)	10	4 to 10	1 to 8
Level (lbs/ft^3)	3 to 15	2 to 8	2.5 to 12.5
Minimum Contact Time	20 minutes		
Slow Rinse	15 gal/ft^3 at regeneration flow rate		
Fast Rinse	8 to 22 gal/ft^3 at service flow rate		

PERFORMANCE

Operating capacity and ionic leakage depend on several factors such as water analysis, temperature and regenerant level. Engineering data sheets for AMBERJET 1200 Na provide information to calculate these values.

LIMITS OF USE

AMBERJET 1200 Na is suitable for industrial uses. For all 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 AMBERJET 1200 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 AMBERJET 1200 Na, as a function of backwash flow rate and water temperature.

Fig. 1 : Pressure Drop

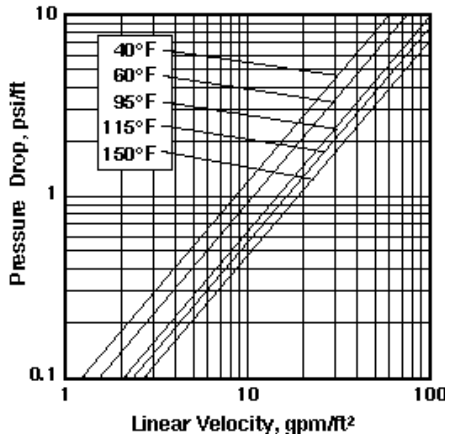
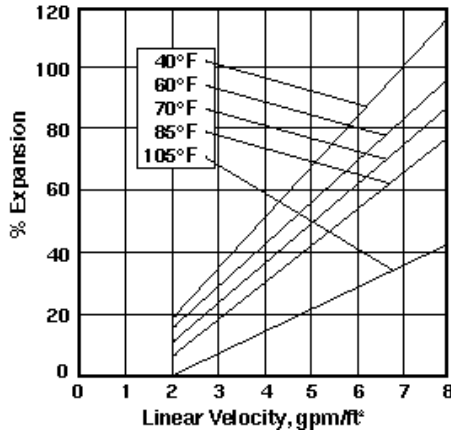


Fig. 2 : Bed Expansion



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