LENNTECH

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AMBERJET™ 1200 H Industrial Grade Strong Acid Cation Exchanger

Description

AMBERJET 1200 H resin is a uniform particle size, high quality, strong acid cation exchanger designed for use in all general demineralisation systems. The uniformity and mean particle size of AMBERJET 1200 H resin have been optimised for use in industrial demineralisation equipment including mixed beds when paired with AMBERJET 4200 Cl resin. AMBERJET 1200 H resin can be directly substituted for conventional gel cation exchange resi in new equipment and in rebeds of existing installations.

These properties are typical but do not constitute Physical form	Amber spherical bead		
Matrix	Styrene divinylbenzen	zyrene divinylbenzene copolymer	
Functional group	Sulfonate	Jlfonate	
Ionic form as shipped	H ⁺	,+	
Total exchange capacity ^[1]	\geq 1.80 eq/L (H ⁺ form)	1.80 eq/L (H ⁺ form) - \geq 2.00 eq/L (Na ⁺ form)	
Moisture holding capacity ^[1]	49 to 55% (H ⁺ form)	9 to 55% (H ⁺ form)	
Shipping weight	800 g/L	00 g/L	
Specific gravity	1.18 to 1.22 (H ⁺ form	.18 to 1.22 (H ⁺ form	
Particle size			
Uniformity coefficient ^[1]	≤ 1.2	1.2	
Harmonic mean size	630 ± 50 μm	30 ± 50 μm	
Fines content ^[1]	< 0.300 mm : 0.1% n	0 300 mm : 0.1% max	
Maximum reversible swelling	$Na^{+} < H^{+} : 10\%$	Na ⁺ KH ⁺ : 10%	
^[1] Contractual value Test methods are available on request			
Suggested Operating Conditions Maximum operating temperature	135°C		
Minimum bed depth		800 mm	
Service flow rate		5 to 50 BV*/h	
Maximum service velocity	60 m/h	60 m/h	
Regeneration			
Regenerant	HCI	H ₂ SO ₄	
Level (g/L)	40 to 150	40 to 200	
Concentration (%)	4 to 10	1 to 8	
Concentration (70)		20 minutes	
Minimum contact time	20 minutes		
	20 minutes 2 BV at regenerat	ion flow rate	

* 1 BV (Bed Volume) = 1 m^3 solution per m^3 resin

Performance

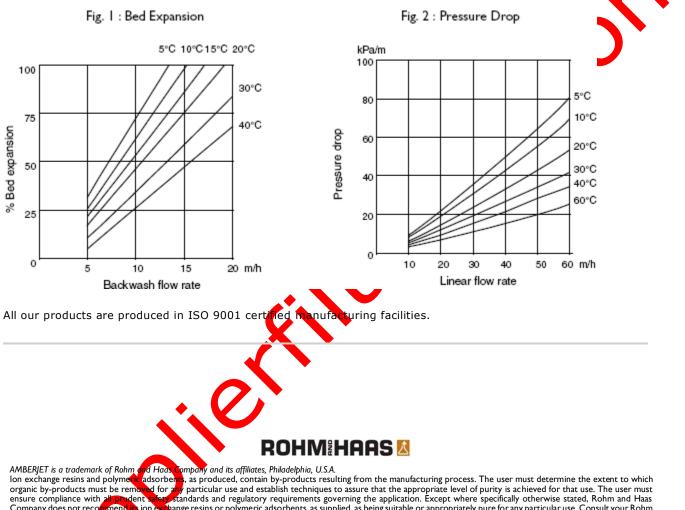
Operating capacity and sodium leakage depend on several factors such as water analysis, temperature and regenerant level. The engineering data sheets EDS 0355 A, 0356 A, 0359 A, and 0360 A, provide information to calculate them.

Limits of Use

AMBERJET 1200 H resin 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 in order to determine the best resin choice and optimum operating conditions.

Hydraulic Characteristics

Figure 1 shows the bed expansion of AMBERJET 1200 H resin as a function of backwash flow rate and water temperature. Figure 2 shows the pressure drop data for AMBERJET 1200 H resin as a function of service flow rate and water temperature. Pressure drop data are valid at the start of the service run with a clear water and a correctly classified bed.



organic by-products must be removed for any particular use and establish techniques to assure that the appropriate level of purity is achieved for that use. The user must ensure compliance with all prudent sufer, standards and regulatory requirements governing the application. Except where specifically otherwise stated, Rohm and Haas Company does not recommend it, ion exchange resins or polymeric adsorbents, as supplied, as being suitable or appropriately pure for any particular use. Consult your Rohm and Haas technical redusentative for further information. Acidic and basic regenerant solutions are corrosive and should be handled in a manner that will prevent eye and skin contact. Nitric acid and other strong oxidising agents can cause explosive type reactions when mixed with lon Exchange resins. Proper design of process equipment to prevent rapid buildup of pressure's negosary if use of an oxidising agents such as nitric acid is contemplated. Before using strong oxidising agents in contact with lon Exchange Resins, consult sources knowledgeable in the handling of these materials.

Rohm and Huns Company makes no warranties either expressed or implied as to the accuracy or appropriateness of these data and expressly excludes any liability upon Rohm and Haas arising out of its use. We recommend that the prospective users determine for themselves the suitability of Rohm and Haas materials and suggestions for any use prior to their addition. Suggestions for uses of our products of the inclusion of descriptive material from patents and the citation of specific patents in this publication should not be understood as recompanying the use of our products in violation of any patent or as permission or license to use any patents of the Rohm and Haas Company and its affiliates. Material Safety Data Sheer outlining the hazards and handling methods for our products are available on request.

LENNTECH WATER TREATMENT AND AIR PURIFICATION