

PRODUCT DATA SHEET

AMBERLITE™ IR120 H

Industrial Grade Strong Acid Cation Exchanger

AMBERLITE IR120 H resin is a gel type strongly acidic cation exchange resin of the sulfonated polystyrene type. It is used for water demineralisation (in H⁺ form) in co-flow regenerated units.

AMBERLITE IR120 H resin is an excellent general purpose cation exchange resin that can be used for a wide variety of water demineralisation applications.

Amber spherical beads Styrene divinylbenzene copolymer Sulfonic acid
H^+ $\geq 1.80 \text{ eq/L (H}^+ \text{ form)}$
53 to 58 % (H ⁺ form) 800 g/L
≤ 1.8 0.620 to 0.830 mm 2 % max
$Na^+ \rightarrow H^+ \le 11 \%$
135 °C 700 mm 5 to 40 BV*/h
HCl H_2SO_4
50 to 150 60 to 240 5 to 8 0.7 to 6 30 minutes 2 BV at regeneration flow rate

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

PERFORMANCE

The operating capacity depends on several factors such as the water analysis and the level of regeneration. The data to calculate the operating capacity and the ionic leakage with co-flow regeneration are given in the Engineering Data Sheets: EDS 0264 A and EDS 0265 A.

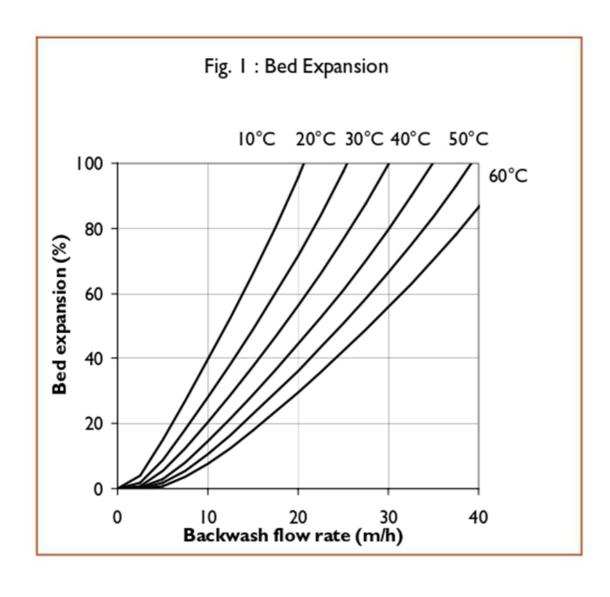
LIMITS OF USE

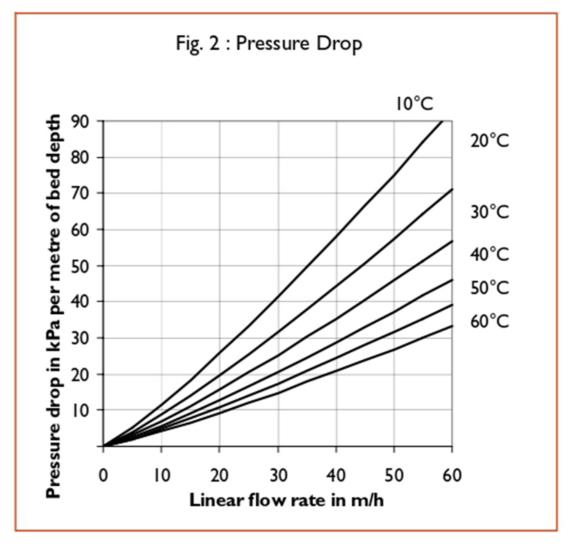
AMBERLITE IR120 H resin is suitable for industrial uses. For other specific applications such as pharmaceutical, food processing or potable water applications, it is recommended that all potential

users seek advice from Rohm and Haas in order to determine the best resin choice and optimum operating conditions.

HYDRAULIC CHARACTERISTICS

Figure 1 shows the bed expansion of AMBERLITE IR120 H resin as a function of backwash flow rate and water temperature. Figure 2 shows the pressure drop data for AMBERLITE IR120 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 clear water and a correctly classified bed.





All our products are produced in ISO 9001 certified manufacturing facilities.

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Ion exchange resins and polymeric adsorbents, as produced, contain by-products resulting from the manufacturing process. The user must determine the extent to which 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 safety standards and regulatory requirements governing the application. Except where specifically otherwise stated, Rohm and Haas Company does not recommend its ion exchange resins or polymeric adsorbents, as supplied, as being suitable or appropriately pure for any particular use. Consult your Rohm and Haas technical representative 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 Ion Exchange resins. Proper design of process equipment to prevent rapid buildup of pressure is necessary if use of an oxidising agent such as nitric acid is contemplated. Before using strong oxidising agents in contact with Ion Exchange Resins, consult sources knowledgeable in the handling of these materials.

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