

LENNIECH WATER TREATMENT AND AIR PURIFICATION

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AMBERLITE® 252RF H

Industrial Grade Strong Acid Cation Exchanger

PRODUCT DATA SHEET

AMBERLITE 252RF H is a macroporous cation exchange resin based on sulphonated cross-linked polystyrene, specially developed for packed and floating bed applications such as AMBERPACK systems.

AMBERLITE 252RF H has a moderate degree of crosslinking resulting in good regeneration efficiency. It is very resistant to osmotic shock and to mechanical attrition.

Matrix	Styrene divinylbenzene copolymer
Functional groups	SO ₃ -
Physical form	Light grey beads
Ionic form as shipped	H ⁺
Total exchange capacity [1]	
Moisture holding capacity [1]	52 - 58 % (H ⁺ form)
Specific gravity	1.24 to 1.28 (Na ⁺ form)
Shipping weight	
Particle size	
Uniformity coefficient	≤ 1.60
Harmonic mean size	600 - 800 μm < 0.300 mm : 0.1 % max
Fine contents [1]	
Maximum reversible swelling	$Na^+ \rightarrow H^+: 10 \%$
[1] Contractual value	
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Test methods are available on request. SUGGESTED OPERATING CONDIT Minimum bed depth Service flowrate Regenerant Flowrate (BV/ h) Concentration (%)	TIONS 1400 mm 5 to 40 BV*/ h HCl H ₂ SO ₄ 4 to 6 4 to 12 4 to 10 1 to 5
Test methods are available on request. SUGGESTED OPERATING CONDIT Minimum bed depth Service flow rate Regenerant Flow rate (BV/ h) Concentration (%) Level (g/ L)	TIONS 1400 mm 5 to 40 BV*/ h HCl H ₂ SO ₄ 4 to 6 4 to 12 4 to 10 1 to 5 45 to 100 50 to 120
Test methods are available on request. SUGGESTED OPERATING CONDIT Minimum bed depth Service flowrate Regenerant Flowrate (BV/ h) Concentration (%)	TIONS 1400 mm 5 to 40 BV*/ h HCl H2SO4 4 to 6 4 to 12 4 to 10 1 to 5 45 to 100 50 to 120 30 minutes

HYDRAULIC CHARACTERISTICS

AMBERLITE 252RF H gives a pressure drop of about 12 kPa/ m bed depth per 10 m/ h at 15°C. A backwash flow rate of 20 m/ h gives a bed expansion of about 70 % at 15°C.

Pressure drop data are valid at the start of the service run with a clear water and a correctly classified bed.

LIMITS OF USE

AMBERLITE 252RF H 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.

All our products are produced in ISO 9002 certified manufacturing facilities.



AMBERJET is a trademark of Rohm and Haas Company and its affiliates, Philadelphia, U.S.A. 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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