AMBERLITE™ RF12

Industrial Grade Inert Polymer

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PRODUCT DATA SHEET

AMBERLITE™ RF12 is an inert polymer with a specific gravity lower than that of water. It has been developed for use as an upper layer in packed bed up-flow regeneration ion exchange systems, such as Amberpack™ Reverse. The suffix RF means "Reverse-Flow".

PROPERTIES

Matrix	Polyethylene
Physical form	White opaque granules
Specific gravity	about 0.96
Bulk density	600 to 650 g/L
Particle size	2.5 x 4.0 mm

SUGGESTED OPERATING CONDITIONS

Maximum operating temperature	100°C,
Operating pH range	0 to 14
Chemical resistance	Insoluble in acids, bases and brine
Minimum bed depth	150 mm

APPLICATIONS

AMBERLITE RF12 has been developed for use in packed bed with down-flow service and up-flow regeneration. It is used as an upper layer to prevent the ion exchange resin from being in direct contact with the upper water distributor/regenerant collector. The shape and size of the granules also permit fine particles (resin fragments or suspended solids accumulated on the resin bed) to migrate through the layer of inert, so these can pass through the collector slots and be discarded to waste during the first phase of regeneration.

LIMITS OF USE

AMBERLITE RF12 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 9001 certified manufacturing facilities.

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

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.