ROHM AND HAAS | Ion Exchange Resins

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PRODUCT DATA SHEET

AMBERLITE™ IRN9882

Nuclear Grade Mixed Bed Resin

AMBERLITE IRN9882 resin is a nuclear grade mixed bed resin. It is a mixture of a strongly acidic cation exchange resin and a strongly basic anion exchanger. Both components are characterised by a macroporous polystyrenic structure which gives the mixed bed an exceptional physical stability.
AMBERLITE IRN9882 resin is specifically designed for the treatment of the storage pond effluents when the linear velocity exceeds 50 m/h.

PROPERTIES

Matrix	Polystyrene
Functional groups	Sulphonate, quaternary ammonium
Composition in volume	Cation exchanger: 40 % ± 2 % Anion exchanger: 60 % ± 2 %
Ionic form as shipped	H^+ (99% minimum) - OH^- (95% minimum)
Shipping weight	730 g/L (OH^- form)
Particle size	0.4 to 1.0 mm : 80 % minimum
< 0.315 mm	0.2 % max.
> 1.25 mm	3.0 % max.

PURITY

As with all nuclear grade products, AMBERLITE IRN9882 resin is manufactured to meet all recognised specifications of the nuclear industry. Its purity specifications meet the following values (expressed in mg/kg dry product) :

	Anion Exchanger mg/kg maximum	Cation Exchanger mg/kg maximum
Fe	100	100
Na	20	60
Cu	30	30
Co	30	30
Al	50	50
Pb	30	30
Hg	20	20
Silica	100	
Total sulphate	600	
Total chloride	500	

The anion exchange resin component is supplied with a minimum of 95 % of its exchange sites in the OH^- form and a maximum of :

Ionic chloride : 0.2 % of the exchange sites
Ionic sulphate : 0.3 % of the exchange sites

LIMITS OF USE

AMBERLITE IRN9882 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.

All our products are manufactured in ISO 9001 certified facilities.

ROHM AND HAAS

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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.