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AMBERLITE™ IRN9882

Nuclear Grade Mixed Bed Resin

Introduction

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 characterized 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 recognized 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 is suitable for industrial users. For all other specific applications such as pharmaceutical, food processing or potable water applications, it is recommended that all potential users seek advice from Dow Water & Process Solutions in order to determine the best resin choice and optimum operating conditions.

For more information about DOW™ resins, call the Dow Water & Process Solutions business:

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