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AMBERLITE™ IRA900RF CI

Industrial Grade Strong Base Anion Exchanger

Introduction

AMBERLITE IRA900RF CI resin is a macroreticular polystyrene type 1 strong base anion exchange resin containing quaternary ammonium groups. This allows complete removal of all anions, including weakly dissociated ones like silica. The macroreticular structure embodies fixed large pores, presenting a sponge-like matrix. This feature combined with the strong basicity permits the removal of large size soluble organic molecules. The particle size distribution of AMBERLITE IRA900RF CI resin has been specifically selected to give optimum performance in packed and floating bed applications.

Properties

Physical Form	Ivory spherical beads
Matrix	Styrene divinylbenzene copolymer
Functional group	Trimethyl ammonium
Ionic form as shipped	Chloride
Total exchange capacity	≥ 1.00 eq/L (Cl ⁻ form)
Moisture holding capacity	58 to 64 % (Cl ⁻ form)
Specific gravity	1.050 to 1.080 (Cl ⁻ form)
Shipping weight	700 g/L
Particle Size	
Uniformity coefficient	≤ 1.5
Harmonic mean size	0.650 – 0.820 mm < 0.300 mm 0.1 % max
Maximum reversible swelling	Cl ⁻ → OH ⁻ : 25 %

Suggested Operating Conditions

Water Treatment	
Minimum bed depth	1000 mm (preferably > 1400 mm)
Service flow rate	5 to 40 BV*/h
Regeneration	
Regenerant	NaOH
Concentration	2 to 4 %
Level	30 to 120 g/L
Minimum contact time	30 minutes
Slow rinse	2 BV at regeneration flow rate
Fast rinse	4 to 8 BV at service flow rate

Performance

The engineering data sheet EDS 0186 A provide information to calculate the operating capacity and silica leakage of AMBERLITE IRA900 RF CI resin used in water treatment.

Hydraulic Characteristics

AMBERLITE IRA900RF CI resin gives a pressure drop of about 13 kPa/m bed depth per 10 m/h at 15°C. A backwash flow rate of 5.5 m/h gives a bed expansion of about 65 % at 15°C.

Limits of use

AMBERLITE IRA900RF CI resin is suitable for industrial uses. For all 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.

**For more information about DOW™
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