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AMBERLITE™ IRA67RF

Industrial Grade Weak Base Anion Exchanger

Introduction

AMBERLITE IRA67RF resin is a weak base anion exchange resin with a gel type acrylic matrix. It has a high capacity, excellent physical stability, fast kinetics, outstanding resistance to organic fouling and basicity higher than that of polystyrenic weak base resins. The flexible acrylic structure of AMBERLITE IRA67RF resin allows for effective adsorption and desorption of naturally occurring organic molecules, such as humic and fulvic acids, that are present in many water supplies. The particle size distribution of AMBERLITE IRA67RF resin has been specifically selected to give optimum performance in packed bed and floating bed applications.

Properties

Physical form	Translucent white spherical beads
Matrix	Crosslinked acrylic gel structure
Functional group	Tertiary amine
Ionic form as shipped	Free Base (FB)
Total exchange capacity	≥ 1.60 eq/L (FB form)
Moisture holding capacity	56 to 64 % (FB form)
Shipping weight	700 g/L
Particle Size	
Uniformity coefficient	≤ 1.70
Harmonic mean size	0.700 – 0.950 mm < 0.355 mm 0.5 % max
Reversible swelling	FB → Cl ⁻ ≤ 30 %

Suggested Operating Conditions

Maximum operating temperature	60 °C
Minimum bed depth	700 mm
Service flow rate	5 to 40 BV*/h
Regeneration	
Regenerant	NaOH
Level	130 % of ionic load
Concentration	2 to 4 %
Minimum contact time	30 minutes
Slow rinse	2 BV at regeneration flow rate
Fast rinse	8 to 16 BV at 10 BV/h

Hydraulic Characteristics

AMBERLITE IRA67RF resin gives a pressure drop of about 10 kPa/m bed depth per 10 m/h at 15 °C. A backwash flow rate of 6.5 m/h gives a bed expansion of about 65 % at 15 °C.

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

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