

AMBERLITE IRA900RFCI

Industrial Grade Strong Base Anion Exchanger

PRODUCT DATA SHEET

AMBERLITE IRA900RF Cl 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 Cl has been specifically selected to give optimum performance in packed and floating bed applications.

PROPERTIES

Matrix	Styrene divinylbenzene copolymer
Functional groups	-N ⁺ (CH ₃) ₃
Physical form	Ivory beads
Ionic form as shipped	Chloride
Total exchange capacity ^[1]	≥ 1.0 eq/ L (Cl ⁻ form)
Moisture holding capacity ^[1]	58 to 64 % (Cl ⁻ form)
Specific gravity	1.050 to 1.080 (Cl ⁻ form)
Shipping weight	700 g/ L
Particle size	
Harmonic mean size	650 - 820 μm
Uniformity coefficient	≤ 1.5
Fine contents ^[1]	< 0.300 mm : 0.1 % max
Coarse beads	> 1.180 mm : 2.0 % max
Maximum reversible swelling	Cl ⁻ → OH ⁻ : 25 %
Chemical resistance	Insoluble in dilute solutions of acids or bases and common solvents

^[1] Contractual value

Test methods are available on request.

SUGGESTED OPERATING CONDITIONS

Minimum bed depth	1000 mm (preferably > 1400 mm)
Service flow rate	5 to 40 BV*/ h
Regenerant	NaOH
Flow rate	2 to 8 BV/ h
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

* 1 BV (Bed Volume) = 1 m³ solution per m³ resin