



AMBERLITE IRA900RF Cl

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

