



# AMBERLITE® IRA900 Cl

Industrial Grade Strong Base Anion Exchanger

## PRODUCT DATA SHEET

AMBERLITE IRA900 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. In addition the macroreticular structure imparts superior resistance to mechanical and osmotic shock.

### PROPERTIES

Matrix _____	Styrene divinylbenzene copolymer
Functional groups _____	$-N^+(CH_3)_3$
Physical form _____	Ivory beads
Ionic form as shipped _____	Chloride
Total exchange capacity <sup>[1]</sup> _____	$\geq 1.0$ eq/L (Cl <sup>-</sup> form)
Moisture holding capacity <sup>[1]</sup> _____	58 to 64 % (Cl <sup>-</sup> form)
Specific gravity _____	1.050 to 1.080 (Cl <sup>-</sup> form)
Shipping weight _____	700 g/L
Particle size _____	
Harmonic mean size _____	0.650 - 0.820 mm
Uniformity coefficient _____	$\leq 1.80$
Fine contents <sup>[1]</sup> _____	< 0.300 mm : 0.5 % max
Coarse beads _____	> 1.180 mm : 3.0 % max
Maximum reversible swelling _____	Cl <sup>-</sup> → OH <sup>-</sup> : about 25 %
Chemical resistance _____	Insoluble in dilute solutions of acids or bases and common solvents

<sup>[1]</sup> Contractual value

Test methods are available on request.

### SUGGESTED OPERATING CONDITIONS

### (WATER TREATMENT)

Minimum bed depth _____	700 mm
Service flow rate _____	up to 120 BV*/h
Regenerant _____	NaOH
Flow rate _____	2 to 8 BV/h
Concentration _____	2 to 4 %
Level _____	50 to 150 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 m<sup>3</sup> solution per m<sup>3</sup> resin

