



AMBERLITE® IRA92

Industrial Grade Weak Base Anion Exchanger

PRODUCT DATA SHEET

AMBERLITE IRA92 is a high capacity polystyrene, weak base anion exchanger. This resin is highly efficient for the uptake of strong acids (e.g. HCl, H₂SO₄) when following a strong acid cation exchanger in the H form. Its

macroporous structure ensures excellent adsorption and desorption of organic matter. It has an outstanding mechanical and osmotic stability, making it suitable for the treatment of solution with high ionic concentrations.

PROPERTIES

Matrix _____	Macroporous polystyrene
Functional groups _____	-NR ₂ : 85 %
Physical form _____	Ivory-coloured beads
Ionic form as shipped _____	Free Base (FB)
Total exchange capacity ^[1] _____	≥ 1.60 eq/L (FB form)
Moisture holding capacity ^[1] _____	40 to 50 % (FB form)
Shipping weight _____	660 g/L
Specific gravity _____	1.035 to 1.065 (FB form)
Particle size _____	
Harmonic mean size _____	580 to 780 µm
Uniformity coefficient _____	≤ 1.8
Fines content ^[1] _____	< 0.355 mm : 3 % max
Maximum reversible swelling _____	FB → Cl ⁻ : 25 %
Chemical resistance _____	Insoluble in dilute solutions of acids or bases and common solvents

Test methods available upon request

SUGGESTED OPERATING CONDITIONS

Operating temperature limit _____	90°C (FB form)
Service flow rate _____	5 to 30 BV*/h
Regenerants _____	NaOH NH ₃ Na ₂ CO ₃
Level (g/L) _____	40 to 80 40 to 80 60 to 130
Concentration (%) _____	2 to 6 2 to 3 5 to 8
Flow rate (BV/h) _____	2 to 8 2 to 8 2 to 8
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

