



AMBERLITE® IRA96

Industrial Grade Weak Base Anion Exchanger

PRODUCT DATA SHEET

AMBERLITE IRA96 is a macroreticular weak base anion exchange resin. Its very stable structure and limited reversible swelling make it very resistant to osmotic shock. The high degree of porosity of this resin provides efficient adsorption of large organic molecules and their desorption during regeneration, thus allowing excellent protection against organic fouling.

AMBERLITE IRA96 is intended primarily for the removal of strong acids from water following a strongly acidic cation exchange resin, and it provides excellent protection against organic fouling for the strong base anion exchange resin placed downstream in a deionization plant.

PROPERTIES

Matrix	Styrene divinylbenzene copolymer
Functional groups	Tertiary amine
Physical form	Opaque spherical beads
Ionic form as shipped	Free base (FB)
Total exchange capacity ^[1]	≥ 1.25 eq/L (FB form)
Moisture holding capacity ^[1]	57 to 63 % (FB form)
Specific gravity	1.040 to 1.060 (FB form)
Shipping weight	670 g/L
Particle size	
Uniformity coefficient	≤ 1.80
Harmonic mean size	550 to 750 μm
Fine contents ^[1]	< 0.300 mm : 1.0 % max
Coarse beads	> 1.180 mm : 1.0 % max
Maximum reversible swelling	FB → Cl ⁻ : 15 %

^[1] Contractual value

Test methods are available on request.

SUGGESTED OPERATING CONDITIONS

Maximum operating temperature	100°C
Minimum bed depth	700 mm
Service flow rate	5 to 40 BV*/h
Regenerant	NaOH NH ₃ Na ₂ CO ₃
Flow rate (BV/h)	2 to 8 2 to 8 2 to 8
Concentration (%)	2 to 4 2 to 6 5 to 8
Level (% of ionic load)	120 150 200
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

