



AMBERLITE® IRA96RF

Industrial Grade Weak Base Anion Exchanger

PRODUCT DATA SHEET

AMBERLITE IRA96RF 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 IRA96RF 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 in the same vessel. The particle size distribution of AMBERLITE IRA96RF has been specifically selected to give optimum performance in packed and floating bed applications.

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 _____	≤ 1.50
Harmonic mean size _____	630 to 830 µm
Fine contents ^[1] _____	< 0.300 mm : 0.1 % 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
Flow rate _____	2 to 8 BV/h
Concentration _____	2 to 4 %
Level _____	120 % of ionic load
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

