



AMBERLITE® IRA70RF

Industrial Grade Weak Base Anion Exchanger

PRELIMINARY PRODUCT DATA SHEET

AMBERLITE IRA70RF is a weak base anion exchange resin with a gel type acrylic matrix. The acrylic polymer matrix is extremely flexible providing far superior physical stability and organic fouling resistance in comparison with conventional polystyrene based resins. Less breakdown and less fouling yields longer life in the application. AMBERLITE IRA70RF is a gel-type resin giving it higher capacity and longer run lengths than macroporous-type resins.

Compared to other acrylic weak base anion resins, AMBERLITE IRA70RF has an excellent rinse performance. Its excellent organic reversibility makes it ideally suited to demineralise surface waters containing high amounts of organic matter. The particle size distribution of AMBERLITE IRA70RF has been specifically selected to give optimum performance in packed and floating bed applications. Its reversible swelling is low.

PROPERTIES

Matrix	Crosslinked acrylic gel structure
Functional groups	Tertiary amine
Physical form	Transparent white beads
Ionic form as shipped	Free Base (FB)
Total exchange capacity ^[1]	≥ 1.4 eq/L (FB form)
Moisture holding capacity ^[1]	56 to 64 % (FB form)
Specific gravity	1.040 to 1.090 (FB form)
Shipping weight	700 g/L
Particle size	
Uniformity coefficient	≤ 1.60
Harmonic mean size	700 - 950 µm
Fine contents ^[1]	< 0.355 mm : 0.5 % max
Coarse beads	> 1.180 mm : 5 - 25 % max
Maximum reversible swelling	FB → Cl ⁻ : 10 %

^[1] Contractual value

Test methods are available on request.

SUGGESTED OPERATING CONDITIONS (WATER TREATMENT)

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	130 % of ionic load
Minimum contact time	30 minutes
Slow rinse	2 BV at regeneration flow rate
Fast rinse	3 to 10 BV at service flow rate

* 1 BV (Bed Volume) = 1 m³ solution per m³ resin

