

PRODUCT DATA SHEET

AMBERLITE™ IRA96**Industrial Grade Weak Base Anion Exchanger**

AMBERLITE IRA96 resin 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 resin 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

Physical form _____	Tan opaque spherical beads
Matrix _____	Styrene divinylbenzene copolymer
Functional group _____	Tertiary amine : at least 85 %
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)
Shipping weight _____	670 g/L
Specific gravity _____	1.040 to 1.060 (FB form)
Particle size	
Uniformity coefficient ^[1] _____	≤ 1.80
Harmonic mean size ^[1] _____	0.550 to 0.750 mm
< 0.300 mm ^[1] _____	1.0 % max
Reversible swelling _____	FB → Cl ⁻ ≤ 15 %

^[1] Contractual value

Test methods are available on request.

SUGGESTED OPERATING CONDITIONS

Maximum operating temperature _____	60 °C
Minimum bed depth _____	700 mm
Service flow rate _____	5 to 40 BV*/h
Regenerant _____	NaOH NH ₃ Na ₂ CO ₃
Level (% of ionic load) _____	120 150 200
Concentration (%) _____	2 to 4 2 to 6 5 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

PERFORMANCE

The Engineering data sheet EDS 0254 A provides information to calculate the operating capacity of AMBERLITE IRA96 resin used in water treatment.

LIMITS OF USE

AMBERLITE IRA96 resin is suitable for industrial uses. For all other specific applications such as pharmaceutical, food processing or potable water applications, it is recommended that all potential users seek advice from Rohm and Haas in order to determine the best resin choice and optimum operating conditions.

HYDRAULIC CHARACTERISTICS

Figure 1 shows the bed expansion of AMBERLITE IRA96 resin as a function of backwash flow rate and water temperature. Figure 2 shows the pressure drop data for AMBERLITE IRA96 resin as a function of service flow rate and water temperature. Pressure drop data are valid at the start of the service run with clear water and a correctly classified bed. These data are valid for water treatment and have to be corrected according to the solution to be treated.

Figure 1: Bed Expansion

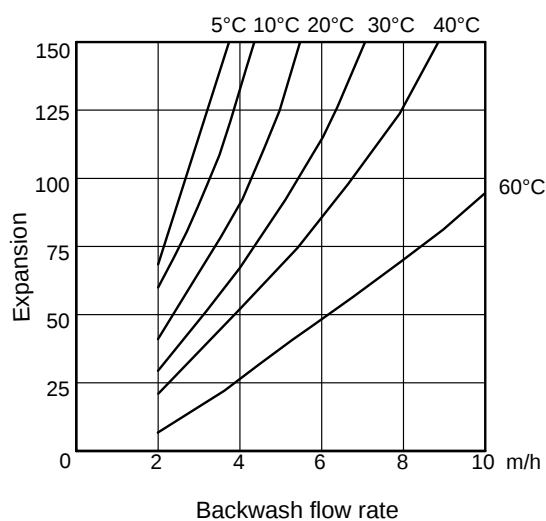
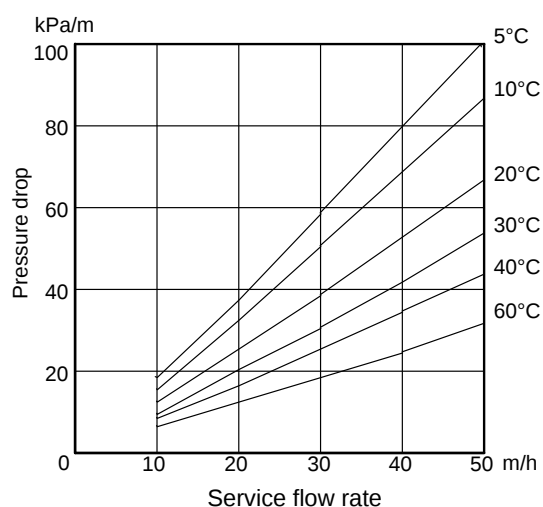


Figure 2: Pressure Drop



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