AMBERLYST® A24

Industrial Grade Weakly Basic Polymeric Resin

PRODUCT DATA SHEET

AMBERLYST A24 is a weak base anion exchange resin with a gel type acrylic matrix. It has a high capacity, excellent physical stability, fast kinetics and a basicity higher than that of polystyrenic weak base resins giving it a decisive advantage in many applications. Due to its excellent organic reversibility, AMBERLYST A24 is successfully used to demineralize solutions containing high amounts of organic matter.

PROPERTIES

Matrix	Crosslinked acrylic gel structure
Functional groups	Tertiary amines
Physical form	Transparent white beads
Ionic form as shipped	Free Base (FB)
Total exchange capacity [1]	≥ 1.6 eq/L (FB form)
Moisture holding capacity [1]	56 to 64 % (FB form)
Shipping weight	700 g/L (43.7 lbs/ft^3)
Particle size	
Uniformity coefficient	≤ 1.70
Harmonic mean size	0.700 - 0.950 mm
Fine contents [1]	< 0.355 mm : 0.5 % max
Coarse beads	> 1.180 mm : 5 - 25 % max
Swelling	Water to acetone : 30 % Water to phenol : 43 %

[1] *Contractual value*

SUGGESTED OPERATING CONDITIONS

Maximum operating temperature	50°C (120 °F)
Minimum bed depth	700 mm (27 inches)
Service flow rate	5 to 40 BV*/h (0.625 to 5 gpm/ft^3)
Regenerant	NaOH
Flow rate	2 to 8 BV/h (0.25 to 1 gpm/ft^3)
Concentration	2 to 4 %
Level	130 % of ionic load
Minimum contact time	30 minutes
Slow rinse	2 BV (15 gal/ft^3) at regeneration flow rate
Fast rinse	8 to 16 BV (60 to 120 gal/ft^3) at 10 BV/h

1 BV = 1 m^3 solution per m^3 of resin

HYDRAULIC CHARACTERISTICS

Figure 1 shows the bed expansion of AMBERLYST A24 as a function of backwash flow rate and water temperature.

Figure 2 shows the pressure drop data for AMBERLYST A24 as a function of service flow rate and water temperature.

Figure 1: Bed expansion

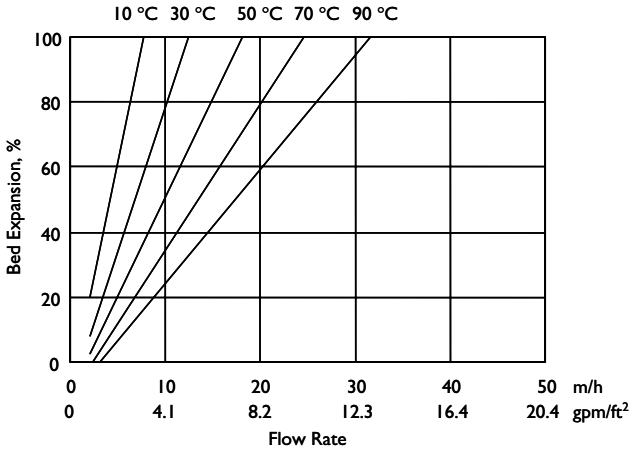
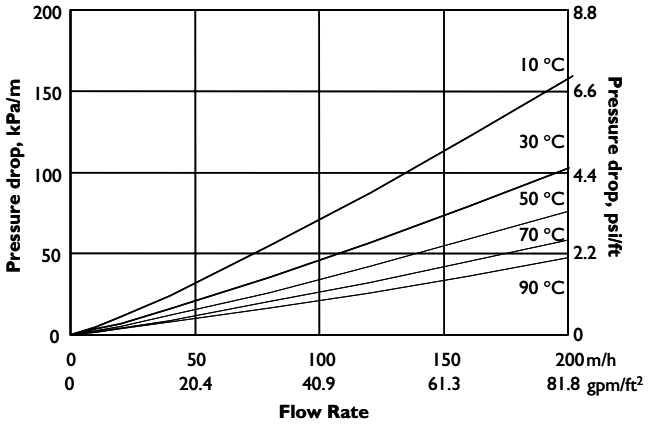


Figure 2: Pressure drop



All our products are produced in ISO 9002 certified manufacturing facilities

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