



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 m³ solution per m³ of resin

HYDRAULIC CHARACTERISTICS

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

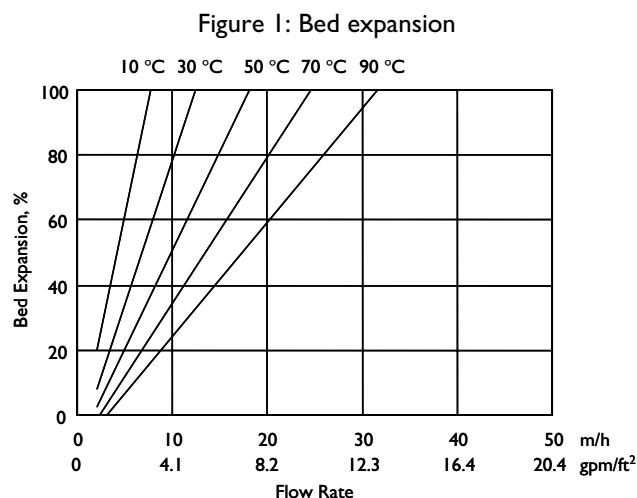
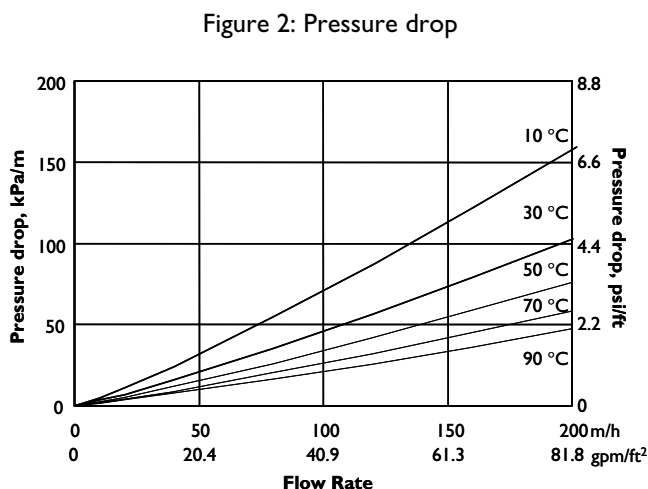


Figure 2 shows the pressure drop data for AMBERLYST A24 as a function of service flow rate and water temperature.



All our products are produced in ISO 9002 certified manufacturing facilities

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