

MBD-30 DI Resin Spec Sheet

RESINTECH MBD-30 is a color indicating mixed bed resin. The anion resin is a Type I strongly basic gel resin with an indicator dye that changes from blue to light brown as the resin exhausts.

PHYSICAL PROPERTIES

Functional Structure	
Cation (Hydrogen form)	RSO_3H^+
Anion (Hydroxyl Form)	$\text{R}_4\text{N}^+\text{OH}^-$ (Strong Base)
Physical Form	Tough, Spherical Beads
Ionic Form	H/OH
Screen Size Distribution	
90 percent	-16 +45 (U.S. St.)
Volume Ratio (as shipped)	
Cation	1.00 parts
Anion	1.00 parts
Total Capacity	
Cation	1.9 meq/mL min. (Na^+ form)
Anion	1.25 meq/mL min. (Cl^- form)
Column Operating Capacity	Initial Cycle
Electrolyte Breakthrough	0.45 meq/mL (10 Kgrs/cu. ft.) min.
Moisture Content (as shipped)	65 percent max.
Maximum Operating Temp.	
Non-regenerable	80°C* (175°F)
Regenerable	50°C (140°F)
Operating Flow Rate	2 to 10 gpm/cu.ft. (typical)
pH Range	0 - 14
Approximate Shipping Weight	43 lbs./cu.ft. (720g/l)
Standard Packaging	7-cu.ft plastic lined fiber drums