

MBD-10-LTOC DI Resin Spec Sheet

ResinTech MBD-10-LTOC is a mixture of hydroxide form Type One strong base gel anion exchange resin and hydrogen form strong acid sulfonated gelular polystyrene cation exchange resin.

PHYSICAL PROPERTIES

Functional Structure	
Cation (Hydrogen form)	RSO_3H^+ (Gel)
Anion (Hydroxyl Form)	$\text{R}_4\text{N}^+\text{OH}^-$ (Type One Gel)
Physical Form	Tough, Spherical Beads
Screen Size Distribution	
+ 16 mesh (U.S. Std)	< 2 percent
- 45 mesh (U.S. Std)	< 2 percent
Volume Ratio (as shipped)	
Cation	40 percent
Anion	60 percent
Total Capacity	
Cation	1.95 meq/mL min. (Na ⁺ form)
Anion	1.40 meq/mL min. (Cl ⁻ form)
Column Operating Capacity	Initial Cycle
Electrolyte Breakthrough	0.60 meq/mL (13 Kgrs/cu. ft.) min.
Moisture Content (as shipped)	60 percent max.
Maximum Operating Temp.	
Non-regenerable	80°C* (175°F)
Regenerable	60°C (140°F)
Operating Flow Rate	2 to 10 gpm/cu.ft. (typical)
pH Range	0 - 14
Metals Content	(typical ppm dry wt)
Iron (Fe)	< 100
Copper (Cu)	< 50
Lead (Pb)	< 50
Approximate Shipping Weight	43 lbs./cu.ft. (720g/l)
Standard Packaging	5 or 7-cu.ft plastic lined fiber drums