

## MBD-10 DI Resin Spec Sheet

ResinTech MBD-10 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 <sub>3</sub> -H <sup>+</sup> (Gel)
Anion (Hydroxyl Form)	R <sub>4</sub> N <sup>+</sup> OH <sup>-</sup> (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 <sup>+</sup> form)
Anion	1.40 meq/mL min. (Cl <sup>-</sup> 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