MB-1 Mixed Bed Resin

MB-1 is a highly regenerated mixed bed of a Type 1 strong base , gelanion exchange resin and a strong acid sulfonated polystyrene cation exchange resin, designed to provide ultra -high purity water. The special blend of Type 1 anion exchange

resins with nuclear grade cation exchange resins ensure high resistance, low TOC extra ctables and excellent regenerable capacities for inorganic versus organic ions .MB-1 is provided in a 60:40 anion to cation ratio (by volume).

Physical Chemical Properties			
Polymer Structure :		MB-1 Features	
Cation	CationHydrogen form sulfonated polystyrene copolymerAnionPolystyrene copolymerAnionHydroxyl form strong base alkyl quaternary ammonium polystyrene copolymerParticle Sizepolystyrene copolymerParticle Sizepolystyrene copolymerDistribution:copolymer16mesh (U.S. S td.)Hydrogen/Hydroxide Spherical beads40meshSpherical beads40meshSpherical beads60Maximum 2% maximum conversion to ionic70mm:0 to 14Cation - Hydrogen Anion - Hydroxide Chloride (Cl ⁻) Carbonate (CO3 ⁻²)99% minimum Sulfate (S O4)93% minimum 93% minimum Cotal Capacity:Cation (Na + form) Anion (Cl ⁻ form)0.1% maximum 43 lbs per cubic foot	Very Low Metal Content Special manufacturing conditions ensure very low metal content.	
Ionic Form a s Shipped: Physical Form: Particle Size		Iron (Fe) Copper (Cu) Lead (Pb)	<100 ppm <50 ppm <50 ppm
Distribution: 16mesh (U.S . S td.) 40mesh		Very Low TOC Non solvent sulfonation and special manufacturing processes assure very low TOC leakage. Uniform Particle Size 98% of all beads are in the minus 16 to plus 40 mesh range: giving a lower pressure drop while maintaining the superior kinetics of standard mesh size products. Superior Physical Stability 90% plus sphericity and high crush strengths together with a very uniform particle size provide greater resistance to bead breakage while maintaining low pressure drop.	
pH Range : Moisture Content Conversion to ionic Form: Cation - Hydrogen Anion - Hydroxide Chloride (Cl ⁻) Carbonate (CO ₃ ⁻²) Sulfate (S O ₄) Shipping Weight: Total Capacity: Cation (Na + form) Anion (Cl ⁻ form)			
	1.9 me q/ml min. 1.3 me q/ml min.		

Recommended Operating Conditions		Safety Information	
Effluent Quality Maximum Temperature :	Resins hould provide e ffluent quality of 10-15 megohm but is depe ndent on many factors	Safety Information Caution: Acidic and basic regenerant solutions are corrosive and should be handled in a mann that will prevent eye and skin contact. Before Non-regenerable 100°C Slow Rinse (Displacement) Flow Rate: 2 to 10 US GPM per cubic foot	
Regenerable	60°C		

These suggestions and data are based on information we believe to be reliable. They are offered in good faith. However, we do not make any guarantee or warranty.

We caution against using these products in an unsafe manner or in violation of any patents. Further, we assume no liability for the consequences of such actions .