

## WEMB-NR ( Nuclear Grade Mixed Bed Resin )

### MB-1

#### Mixed Bed Resin

For water deionization application

Waterequip MB-1 is a high-quality resin mixture composed of strong acid cation resin in H<sup>+</sup> form and strong base type 1 anion resin in OH<sup>-</sup> form. Ready to use as supplied. It is designed for production of high purity water and other applications requiring DI water, such as WEDM, condensate water from power plant, etc. It can achieve almost complete reduction of TDS and conductivity <0.1 μS/cm. Carbon dioxide could carbonate the hydroxide sites of anion component, so it is important to avoid exposure to atmosphere for long period.

#### Basic Features:

Application:	EDM, medical application, aquarium,
Polymer structure:	Gel polystyrene crosslinked with divinylbenzene
Appearance:	Amber colour spherical beads
Functional Group:	Sulfonic Acid / Type I Quaternary Ammonium
Ionic form as shipped:	H <sup>+</sup> / OH <sup>-</sup>

#### Physical and Chemical Properties:

NO.	ITEM	SPEC
1	Model name	MB -1
2	Cation / Anion volumetric ratio	1/1
3	Moisture content (%)	55-61
4	Total exchange capacity (eq/L)	0.5
5	Particle size range (%)	0.315-1.25mm>95
6	Specific density (g/ml)	1.06-1.20
7	Uniformity Coefficient	<1.7
8	Shipping Weight (g/ml)	0.69-0.75
9	Whole beads after attrition (%)	>95
10	Storage temperature (°C)	0-40

#### Suggested Operating Condition:

NO.	ITEM	DATAS
1	Max operating temperature	60°C / 140°F
2	Minimum bed depth	600mm
3	Service flow rate	20- 40 BV/h
4	Applicable PH	1-14