

MAG-MB

Mixed bed resin, styrene/DVB gel, hydrogen & hydroxide form

MAG-MB utilizes amber colored cation and anion components such that the final mixture is amber or golden in color. ResinTech MAG-MB is intended for general purpose deionizing applications such as EDM operations and spot-free rinsing. MAG-MB is supplied ready to use with the cation component in the hydrogen form and the anion component in the hydroxide form.



FEATURES & BENEFITS

- Technical Grade Mixed Bed
- Best Choice For EDM Operations
- Controlled Particle Size
- Optimized Cation/Anion Ratio

APPLICATIONS

- Demineralization / DI
- Electric Discharge Machining (EDM)
- Spot-free rinse

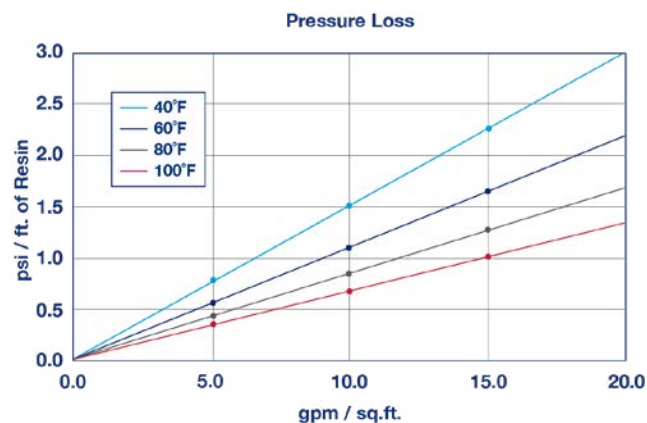


REACH Registered

MAG-MB

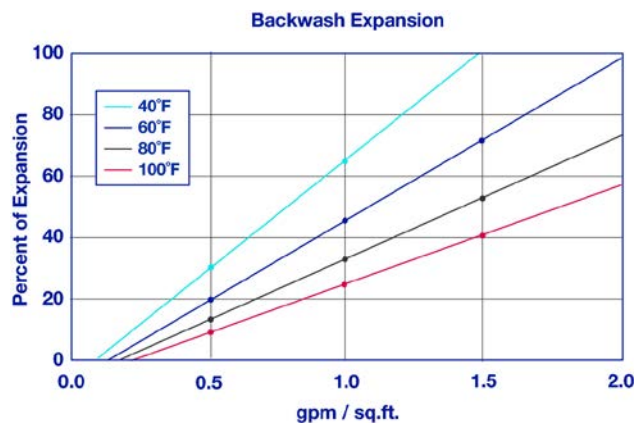
Polymer Matrix	Styrene/DVB	Reversible Swelling	12 to 15% (Na ⁺ /Cl ⁻ → H ⁺ /OH ⁻)
Polymer Type	Gel	Uniformity	Gaussian
Ionic Form (as shipped)	Hydrogen & Hydroxide (H ⁺ / OH ⁻)	Capacity (meq/mL)	0.45
Physical Form	Spherical Beads	Moisture Retention (%)	55 to 60
Particle Size US Mesh (µm)	16 (1190) to 50 (297)	Shipping Weight	42 - 44 lbs/cu.ft. (673 - 705 g/L)
< 50 mesh (300 µm) %	< 1	Color	Amber

PRESSURE LOSS



The graph above shows the expected pressure loss of ResinTech MAG-MB per foot of bed depth as a function of flow rate at various temperatures.

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech MAG-MB as a function of flow rate at various temperatures.

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	120°F (49°C)	Operating pH Range	2.0 to 12.0
Minimum Bed Depth	24 in. (61.0 cm)	Flow Rate	
Maximum Pressure Loss	25 psi (172 kPa)	Working Service	1-5 gpm/cu.ft. (8-40 BV/h)



THROUGHPUT CAPACITY (Gal/cu. ft.)			
TDS (ppm as CaO ₃) Conductivity (uS/cm)	No CO ₂ or SiO ₂	5 ppm CO ₂ or SiO ₂	10 ppm CO ₂ or SiO ₂
2/5	83,876	23,964	13,979
5/12.5	33,550	16,775	11,183
10/25	16,775	11,183	8,388
20/50	8,388	6,710	5,592
50/125	3,355	3,050	2,796
100/250	1,678	1,598	1,525
200/500	839	818	799
500/1250	336	332	329
1,000/2500	168	167	166

Mixed Bed throughput capacity is based on the stated inlet conductivity of neutral pH waters and run to a 1 uS/cm endpoint. TDS is based on NaCl (2.5 uS/cm/ppm as CaCO₃). Different salts may have different contributions to TDS. Capacity is based on the anion component and is for virgin resin. Following the initial exhaustion and regeneration, subsequent cycles will likely be shorter, depending on how skillfully the resins are separated, regenerated, and remixed.

SPOT FREE RINSE

ResinTech MAG-MB is used in a variety of spot free rinse applications to remove hardness, silica, and other ions that might cause spotting upon drying. The deionized water produced by MAG-MB has lower surface tension which helps prevent beading of water droplets on clean surfaces. MAG-MB has a unique golden color that reflects its purity and high capacity.

PACKAGING

Standard

7 cu.ft. Drum | 42 cu.ft. Supersack
1 cu.ft. Bag | 5 cu.ft. Drum

Metric

25L Bag | 140L Drum

EDM

ResinTech MAG-MB is the preferred resin for EDM and other devices that require deionized water for cooling and rinsing. The ratio is specially formulated to provide long throughputs and hardness-free deionized water. ResinTech provides PEDI regeneration services for spent MAG-MB, allowing the resin to be used over hundreds or thousands of exhaustion and regeneration cycles.

WINDOW WASHING

ResinTech MAG-MB is ideal for window washing and other washing applications that require both deionized water and silica reduction to prevent spotting during drying. MAG-MB is made with hydrogen form cation resin and hydroxide form anion resin blended to provide long throughput capacity to exhaustion.



SAFETY DATA SHEETS (SDS)

Safety Data Sheets (SDS) are available for all products on the ResinTech website. They contain important health and safety information that may be needed to protect your employees and customers from any known health and safety hazards associated with our products. We recommend that you secure and study the pertinent MSDS for our products and any other products being used.

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 any such actions.

Safety Data Sheets (SDS) are available at [resintech.com](https://www.resintech.com)

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