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

COMPONENT 1

Media & Volumetric %	50% SBG1P-OH
Media Category	Strong Base Anion
Polymer Type	Gel
Polymer Matrix	Styrene/DVB
Functional Group	Trimethylamine
Ionic Form	Hydroxide (OH^-)
Physical Form	Spherical Beads
Capacity	1.00
Moisture Retention (%)	52 to 60
Media Color	Yellow to Orange

COMPONENT 2

Media & Volumetric %	50% CG8-H
Media Category	Strong Acid Cation
Polymer Type	Gel
Polymer Matrix	Styrene/DVB
Functional Group	Sulfonic Acid
Ionic Form	Hydrogen (H^+)
Physical Form	Spherical Beads
Capacity	1.80
Moisture Retention (%)	47 to 56
Media Color	Amber to Brown

PHYSICAL PROPERTIES

Particle Size	16-50 US mesh (297-1190µm)
< 50 mesh (300 µm) %	< 1
Reversible Swelling	12 to 15% ($Na^+/Cl^- \rightarrow H^+/OH^-$)
Shipping Weight	42 - 44 lbs/cu.ft. (673 - 705 g/L)

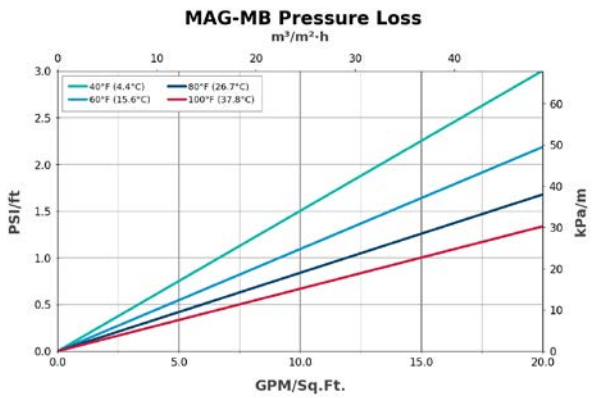
SUGGESTED OPERATING CONDITIONS

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

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

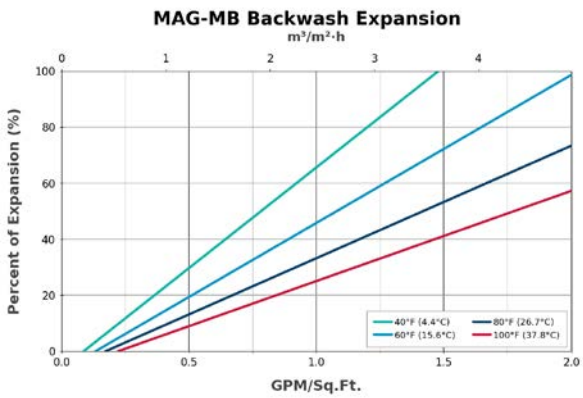
CORPORATE HEADQUARTERS 1801 Federal Street Camden, NJ 08105 USA PHONE 856.768.9600 EMAIL info@resintech.com WEB resintech.com

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.

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 $CaCO_3$). 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.

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.

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.

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.

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CERTIFICATIONS

REACH Registered

PACKAGING

Standard

7 cu.ft. Drum | 42 cu.ft. Supersack

200L Drum | 1000L Supersack

Metric

1 cu.ft. Bag | 5 cu.ft. Drum

25L Bag | 140L Drum

Shipping Weight

42 - 44 lbs/cu.ft. (673 - 705 g/L)

MATERIAL SAFETY DATA SHEETS (MSDS)

Material Safety Data Sheets (MSDS) 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

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