## **PRODUCT SPECIFICATION SHEET**



GENERAL PURPOSE MIXED BED
POLYSTYRENIC GEL
H / OH FORM

ResinTech MAG-MB is a 1:1 volumetric mixture of CG8-H (amber-colored hydrogen form strong acid cation resin) and SBG1P-OH (hydroxide form type 1 porous strong base anion resin). MAG-MB is designed for applications where a pH-balanced mixed bed is not required. MAG-MB is intended for general purpose deionizing applications such as EDM operations and spot-free rinsing.

### **APPLICATIONS**

- Electric Discharge Machining (EDM)
- Spot Free Rinse
- Window Washing

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS				
Polymer Matrix	Styrenic Gel			
Ionic Form	Hydrogen & Hydroxide			
Fuctional Group	Sulfonic Acid / Trimethylamine			
Physical Form	Spherical Beads			
Particle Size	16 to 50 US Mesh (297 - 1)90 µm)			
Particle Size  % < 50 mesh (300µm)  Reversible Swelling  Temp Limit  Capacity (meq/mL)  Moisture Retention  Shipping Weight	LS UCALS.			
Reversible Swelling	HOANO Na/CI -12% to -15%			
Temp Limit	160°F (71°C)			
Capacity (meq/mL)	0.45			
Moisture Retention	52% to 62%			
Shipping Weight	42 - 44 lbs/ft³ (673 - 705 g/L)			
Color	Amber & Amber			
Regenerability	Yes			

#### **PACKAGING OPTIONS**

- 500 ml samples
- 1 ft³ bags
- 1 ft<sup>3</sup> boxes
- 1 ft<sup>3</sup> drums
- 7 ft<sup>3</sup> drums
- 42 ft<sup>3</sup> supersacks





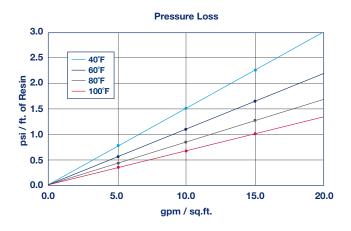


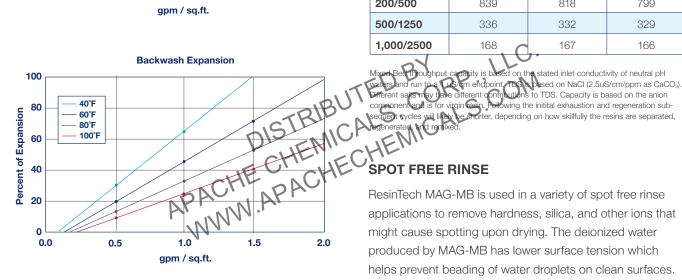
MIXED BED

# **GENERAL PURPOSE MIXED BED POLYSTYRENIC GEL** H / OH FORM

5 ppm CO<sub>2</sub> or

10 ppm CO<sub>2</sub> or





Conductivity (u5/cm)		SiO <sub>2</sub>	SiO <sub>2</sub>		
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 thoughput capacity is based on the stated inlet conductivity of neutral pH waters and run to a CuS/cm endpoint, TDS is based on NaCl (2.5uS/cm/ppm as CaCO <sub>3</sub> ). Different saits may have different contributions to TDS. Capacity is based on the anion					

THROUGHPUT CAPACITY (Gal/cu. ft.)

No CO<sub>2</sub> or SiO<sub>2</sub>

TDS (ppm as CaO<sub>3</sub>)

produced by MAG-MB has lower surface tension which helps prevent beading of water droplets on clean surfaces.

## **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.

## SUGGESTED OPERATING CONDITIONS

120°F Maximum continuous temperature Minimum bed depth 24 inches 50 to 100 percent Backwash expansion Maximum pressure loss 25 psi Operating pH range 2 to 12 SU Service flow rate 1 to 5 gpm per cu. ft.

Note: These guidelines describe average low risk operating conditions. They are not intended to be absolute minimums or maximums

For operation outside these guidelines, contact ResinTech Technical Support

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