PRODUCT SPECIFICATION SHEET

MBD-30

MIXED BED

COLOR-INDICATING
HIGH-CAPACITY MIXED BED
POLYSTYRENIC GEL
H / OH FORM

ResinTech MBD-30 is a 1:1 volumetric mixture of CG8-H (an amber-colored hydrogen form cation resin) and SBG1P-OH-ID (a dyed hydroxide form type 1 porous strong base anion resin). The anion component is infused with a permanent pH indicator dye that changes color from blue to amber as the resin exhausts. MBD-30 is intended for use in cartridge applications where a color indication of resin exhaustion is desired.

APPLICATIONS

- Cartridge Applications
- Aquarium
- Steam Irons

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS		
Polymer Matrix	Styrenic Macroporous	
Ionic Form	Hydrogen & Hydroxide	
Fuctional Group	Sulfonic Acid / Trimethylamine	
Physical Form	Spherical Boads ON	
Particle Size	1500 50 US Mesh (297 - 1190 μm)	
Particle Size % < 50 mesh (300μm)	ENNO	
% < 50 mesh (300µm) Reversible Swelling Temp Limit Capacity (meq/mL) Moisture Retention	H/OH to Na/CI -15% to -17%	
Temp Limit	250°F (121°C)	
Capacity (meq/mL)	0.43	
Moisture Retention	52% to 62%	
Shipping Weight	42 - 44 lbs/ft ³ (673 - 705 g/L)	
Color	Amber & Blue	
Regenerability	Yes	

PACKAGING OPTIONS

- 500 ml samples
- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

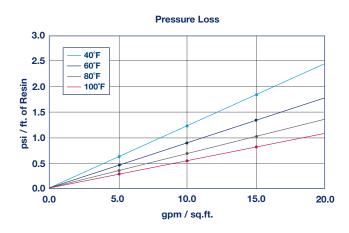


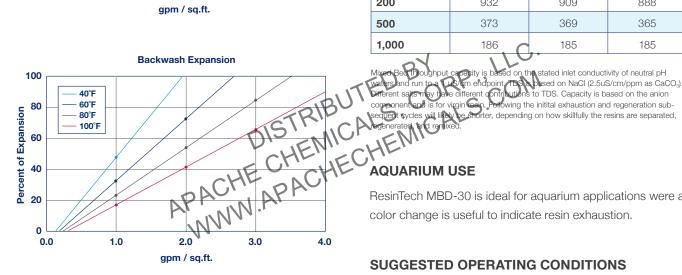


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MIXED BED

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CARTRIDGE USE

ResinTech MBD-30 premixed mixed bed resin is ideal for single use cartridge applications where visual indication of exhaustion is desired. The anion component of MBD-30 is dyed dark blue and turns amber in color as the resin exhausts. The ratio of anion to cation resin is optimized to provide balanced exchange of both cations and anions and to ensure the resin changes color as it exhausts.

THROUGHPUT CAPACITY (Gal/cu. ft.)				
TDS	No CO ₂ or SiO ₂	5 ppm CO ₂ or SiO ₂	10 ppm CO ₂ or SiO ₂	
2	93,195	26,627	15,533	
5	37,278	18,639	12,426	
10	18,639	12,426	9,320	
20	9,320	7,456	6,213	
50	3,728	3,389	3,107	
100	1,864	1,775	1,694	
200	932	909	888	
500	373	369	365	
1,000	186	185	185	

ResinTech MBD-30 is ideal for aquarium applications were a

SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	140°F
Minimum bed depth	24 inches
Backwash expansion	50 to 100 percent
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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