PRODUCT SPECIFICATION SHEET

MBD-20

MIXED BED

TYPE II ANION
POLYSTYRENIC GEL
H / OH FORM

ResinTech MBD-20 is a 4:5 volumetric mixture of CG8-H-BL (a dark-colored hydrogen form cation resin) and SBG2-OH (a hydroxide form type 2 strong base anion resin). The volume ratio is close to 1:1 on an equivalent basis and the component anion resin is chosen for its high operating capacity and efficient regeneration. MBD-20 is intended for use in all mixed bed deionization applications that require high throughput capacity and efficient regeneration.

APPLICATIONS

- Cartridge Applications
- Portable Exchange Deionization (PEDI)

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS		
Polymer Matrix	Styrenic Gel	
Ionic Form	Hydrogen & Hydroxide	
Functional Group	Sulfonic Acid / Dimethylethanolamine	
Physical Form	Spherical Beads ON	
Particle Size	16 το 50 US Mesh (297 - 1190 μm)	
% < 50 mesh (300μm)	LES MICH	
Reversible Swelling	H/OH to Na/CI -15% to -17%	
Temp Limit Capacity (meq/mL)	250°F (121°C)	
Capacity (meq/mL)	0.6	
Moisture Retention	43% to 50%	
Shipping Weight	43 - 45 lbs/ft³ (689 - 721 g/L)	
Color	Tan / Brown & Yellow / Brown	
Regenerability	Yes	

PACKAGING OPTIONS

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

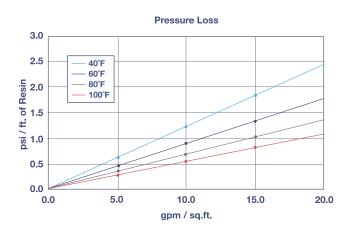


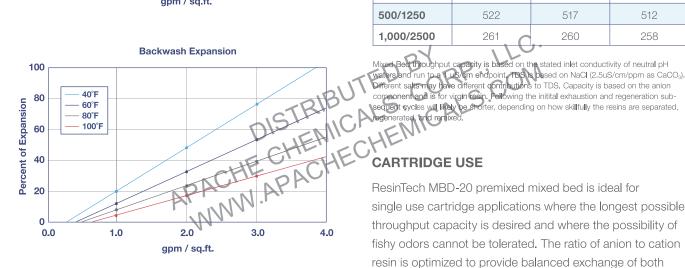


MBD-20

MIXED BED

HIGH-CAPACITY MIXED BED TYPE II ANION POLYSTYRENIC GEL H / OH FORM





PORTABLE EXCHANGE DEIONIZATION (PEDI)

ResinTech MBD-20 can be used in PEDI applications to remove bulk TDS from raw waters or to remove trace levels of TDS following reverse osmosis or other desalination processes. MBD-20 can be separated into its components, CG8-H-BL and SBG2-OH, for regeneration, and reused hundreds or thousands of times. The cation component, CG8-H-BL, is black in color and provides optimized color difference from SBG2-OH. This color difference is very helpful to verify resin separation during backwash.

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	130,473	37,278	21,746	
5/12.5	52,189	26,095	17,396	
10/25	26,095	17,396	13,047	
20/50	13,047	10,438	8,698	
50/125	5,219	4,744	4,349	
100/250	2,609	2,485	2,372	
200/500	1,305	1,273	1,243	
500/1250	522	517	512	
1,000/2500	261	260	258	

run to a TuS/cm endpoint. TDS is based on NaCI (2.5uS/cm/ppm as CaCO3).

single use cartridge applications where the longest possible fishy odors cannot be tolerated. The ratio of anion to cation resin is optimized to provide balanced exchange of both cations and anions as well as to maximize throughput life.

SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	95°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



