PRODUCT SPECIFICATION SHEET



MIXED BED

MACROPOROUS MIXED BED H / OH FORM

ResinTech MBD-25-MP is a 2:5 ratio of SACMP-H (a tan colored hydrogen form macroporous cation resin) and SBMP1-OH (a hydroxide form type 1 macroporous strong base anion resin). The highly cross-linked components provide the highest possible thermal, physical, and chemical stability. MBD-25-MP is intended for use in polishing mixed beds with operating conditions that punish other mixed bed resins.

APPLICATIONS

- Radwaste Removal
- High Temperature Applications

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS		
Polymer Matrix	Styrenic Macroporous	
Ionic Form	Hydrogen & Hydroxide	
Fuctional Group	Sulfonio Acid / Trimethylamine	
Physical Form	Spherical Beads CO	
Particle Size	16 to 50 US Mesn (297 - 1190 µm)	
% < 50 mesh (300μm)	460111	
Reversible Swelling	H/OH to Na/Cl -15% to -17%	
Physical Form Particle Size % < 50 mesh (300µm) Reversible Swelling Temp Limit Capacity (meq/mL) Moisture Retention	250°F (121°C)	
Capacity (meq/mL)	>.55	
Moisture Retention	51% to 68%	
Shipping Weight	41 - 43 lbs/ft³ (657 - 689 g/L)	
Color	Tan / Brown & Yellow / Brown	
Regenerability	Yes	

PACKAGING OPTIONS

- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

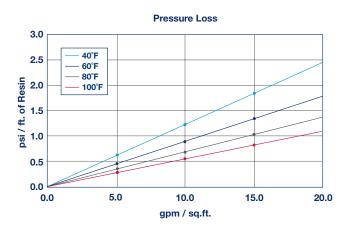


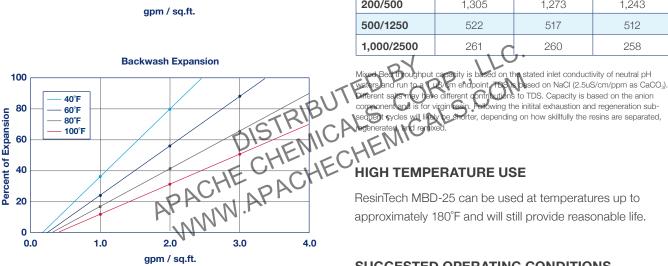


MBD-25-MP

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RADWASTE

ResinTech MBD-25 uses macroporous high crosslinked resins (SACMP-H and SBMP1-OH) for both the cation and the anion components. The high crosslinking provides higher selectivity, more complete removal of radioactive and other contaminants, and also provides greater resistance to the effects of radiation. MBD-25 utilizes a unique anion mixture (approximately 70% anion resin) to provide the longest possible throughput prior to carbon dioxide bleed through.

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	

SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	140°F
Maximum Intermittent temperature	180°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	

service flow rate

1 to 5 gpm per cu. ft. Working 3 to 15 gpm per cu. ft. Polishing

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



