

MBD-100

Color-indicating mixed bed resin, styrene/DVB gel, hydrogen & free base form

ResinTech MBD-100 is a mixture of CG8-H-ID (a dyed hydrogen form cation resin) and WBMP (a free base form macroporous weak base anion resin). The cation component is dyed royal purple and changes color as it exhausts. MBD-100 is intended for cartridge and other single-use applications where carbon dioxide and silica removal is not required, where high resistivity is not needed, and where a color indication of resin exhaustion is desired.



FEATURES & BENEFITS

- Highest Throughput
- Color Indicating Resin
- Designed For Cartridge Use
- Controlled Particle Size

APPLICATIONS

- Cartridge Applications
- Demineralization / DI
- Portable Exchange Deionization (PEDI)

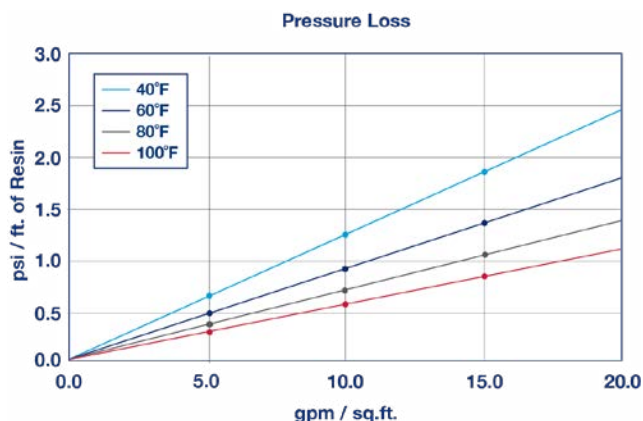


REACH Registered

MBD-100

Polymer Matrix	Styrene/DVB	< 50 mesh (300 μm) %	< 1
Polymer Type	Gel	Reversible Swelling	Insignificant
Component(s)	60% WBMP,40% CG8-H-ID	Uniformity	Gaussian
Ionic Form (as shipped)	Hydrogen & Free Base (H ⁺ / FB)	Capacity (meq/mL)	0.70
Physical Form	Spherical Beads	Moisture Retention (%)	55 to 60
Particle Size US Mesh (μm)	16 (1190) to 50 (297)	Shipping Weight	42 - 44 lbs/cu.ft. (673 - 705 g/L)
		Color	Purple

PRESSURE LOSS



The graph above shows the expected pressure loss of ResinTech MBD-100 per foot of bed depth as a function of flow rate at various temperatures.

SUGGESTED OPERATING CONDITIONS

Minimum Bed Depth	24 in. (61.0 cm)	Flow Rate	
Maximum Pressure Loss	25 psi (172 kPa)	Working Service	1-2 gpm/cu.ft. (8-16 BV/h)
Operating pH Range	2.0 to 12.0	Polishing	3-15 gpm/cu.ft. (24-120 BV/h)



CARTRIDGE USE

ResinTech MBD-100 mixed bed uses a weakly basic anion exchange resin (WBMP) and a purple cation component (CG8-H-ID). MBD-100 is ideal for single use cartridge applications where the longest possible throughput capacity is desired and where silica removal and high resistivity are not needed. The cation component of MBD-100 is dyed purple and turns amber / cream in color as the resin exhausts, providing a visual indication of resin life remaining. The ratio of anion to cation resin is optimized to provide balanced exchange of both cations and anions and ensure the resin changes color as it exhausts.

PACKAGING**Standard**

7 cu.ft. Drum | 42 cu.ft. Supersack
1 cu.ft. Bag | 5 cu.ft. Drum

Metric

25L Bag | 140L Drum

COMPONENT MEDIA

60% WBMP,40% CG8-H-ID

SAFETY DATA SHEETS (SDS)

Safety Data Sheets (SDS) 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

Page 3 of 3

Last Update: 17-Apr-26

