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)

COMPONENT 1

Media & Volumetric %	60% WBMP
Media Category	Weak Base Anion
Polymer Type	Macroporous
Polymer Matrix	Styrene/DVB
Functional Group	Dimethylamine
Ionic Form	Free Base (FB)
Physical Form	Spherical Beads
Capacity	1.30
Moisture Retention (%)	53 to 60
Media Color	White to Tan

COMPONENT 2

Media & Volumetric %	40% CG8-H-ID
Media Category	Strong Acid Cation
Polymer Type	Gel
Polymer Matrix	Styrene/DVB
Functional Group	Sulfonic Acid
Ionic Form	Hydrogen (H^+)
Physical Form	Spherical Beads
Capacity	1.80
Moisture Retention (%)	47 to 56
Media Color	Amber to Brown

PHYSICAL PROPERTIES

Particle Size	16-50 US mesh (297-1190µm)
< 50 mesh (300 µm) %	< 1
Reversible Swelling	Insignificant
Shipping Weight	42 - 44 lbs/cu.ft. (673 - 705 g/L)

SUGGESTED OPERATING CONDITIONS

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

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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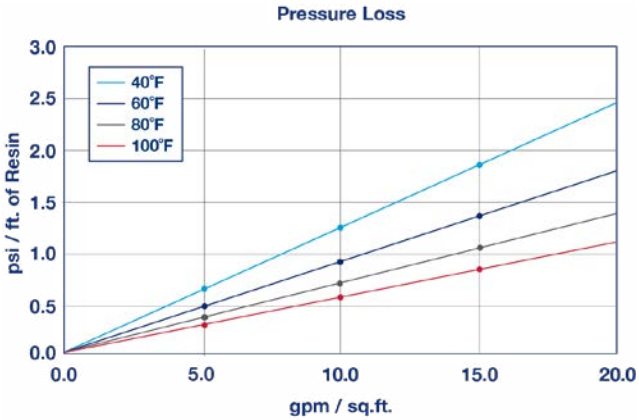
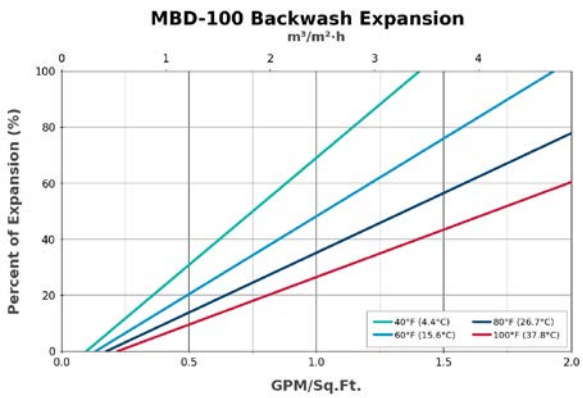
PRESSURE LOSS



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.

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech MBD-100 as a function of flow rate at various temperatures.

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.

CERTIFICATIONS

REACH Registered

PACKAGING

Standard

7 cu.ft. Drum | 42 cu.ft. Supersack

200L Drum | 1000L Supersack

Metric

1 cu.ft. Bag | 5 cu.ft. Drum

25L Bag | 140L Drum

Shipping Weight

42 - 44 lbs/cu.ft. (673 - 705 g/L)

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MATERIAL SAFETY DATA SHEETS (MSDS)

Material Safety Data Sheets (MSDS) 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

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