

MBD-20

High-capacity type 2 anion mixed bed resin, styrene/DVB gel, hydrogen & hydroxide form

ResinTech MBD-20 is a 2:3 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, efficient regeneration, and low amine odor.



FEATURES & BENEFITS

- Highest Operating Capacity
- Ease Of Separation
- Low Amine Odor
- Ideal For Portable Exchange DI Systems
- Complies With US FDA Regulations

APPLICATIONS

- Cartridge Applications
- Portable Exchange Deionization (PEDI)
- Humidification
- Low Odor DI

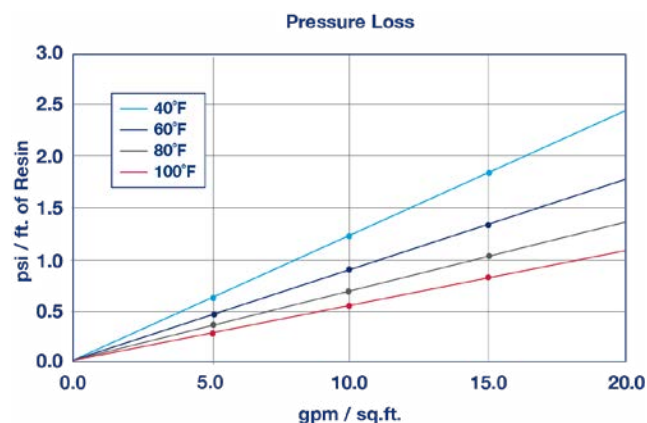


REACH Registered

MBD-20

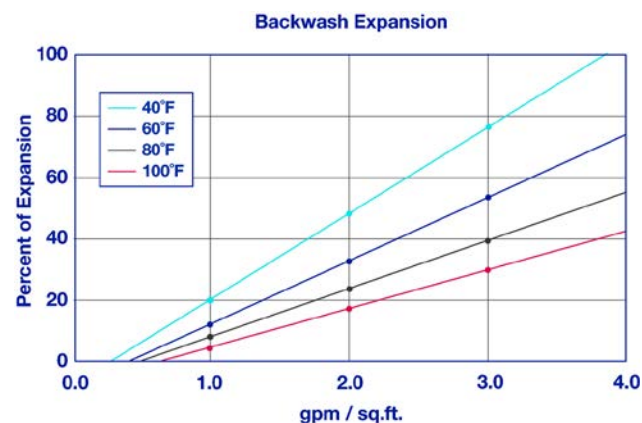
Polymer Matrix	Styrene/DVB	Reversible Swelling	12 to 17% (Na ⁺ /Cl ⁻ → H ⁺ /OH ⁻)
Polymer Type	Gel	Uniformity	Gaussian
Component(s)	60% SBG2-OH,40% CG8-H-BL	Capacity (meq/mL)	0.60
Ionic Form (as shipped)	Hydrogen & Hydroxide (H ⁺ / OH ⁻)	Moisture Retention (%)	43 to 50
Physical Form	Spherical Beads	Shipping Weight	43 - 45 lbs/cu.ft. (689 - 721 g/L)
Particle Size US Mesh (µm)	16 (1190) to 50 (297)	Color	Amber Dark Brown to Black
< 50 mesh (300 µm) %	< 1		

PRESSURE LOSS



The graph above shows the expected pressure loss of ResinTech MBD-20 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-20 as a function of flow rate at various temperatures.

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	1-5 gpm/cu.ft. (8-40 BV/h)

CARTRIDGE USE

ResinTech MBD-20 premixed mixed bed is ideal for single use cartridge applications where the longest possible throughput capacity is desired and where the possibility of fishy (amine) 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.



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.

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% SBG2-OH,40% CG8-H-BL

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

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Last Update: 10-Apr-26

