

MBD-16

High-purity mixed bed resin, styrene/DVB gel, hydrogen & hydroxide form

ResinTech MBD-16 is a 2:3 volumetric mixture of CG10-H-BL (a dark-colored hydrogen form cation resin) and SBG1P-OH (a hydroxide form type 1 porous strong base anion resin). The volume ratio is close to 1:1 on an equivalent chemical basis. The use of a 10% crosslinked cation resin component provides a high density differential between cation and anion components and best separation during backwash. MBD-16 is intended for use in all mixed bed deionization applications that require high resistivity and high throughput capacity.



FEATURES & BENEFITS

- Easiest Separating Mixed Bed
- Controlled Particle Size
- Superior Organic Fouling Resistance
- Highly Porous Anion Component Minimizes Organic Fouling
- Complies With US FDA Regulations

APPLICATIONS

- Portable Exchange Deionization (PEDI)

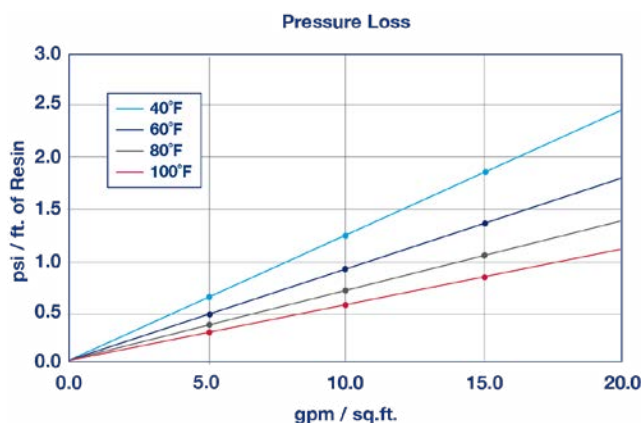


REACH Registered

MBD-16

Polymer Matrix	Styrene/DVB	Reversible Swelling	12 to 17% (Na ⁺ /Cl ⁻ → H ⁺ /OH ⁻)
Polymer Type	Gel	Uniformity	Gaussian
Component(s)	60% SBG1P-OH,40% CG10-H-BL	Capacity (meq/mL)	0.60
Ionic Form (as shipped)	Hydrogen & Hydroxide (H ⁺ / OH ⁻)	Moisture Retention (%)	55 to 60
Physical Form	Spherical Beads	Shipping Weight	42 - 44 lbs/cu.ft. (673 - 705 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-16 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	1-5 gpm/cu.ft. (8-40 BV/h)
Operating pH Range	2.0 to 12.0	Polishing	3-15 gpm/cu.ft. (24-120 BV/h)



PORTABLE EXCHANGE DEIONIZATION (PEDI)

ResinTech MBD-16 can be used in almost all PEDI applications to remove bulk TDS from raw waters or to remove trace levels of TDS following reverse osmosis or other membrane processes. The mixed resin can be separated into its components, CG10-H-BL and SBG1, for regeneration, and reused hundreds or thousands of times. The use of the more dense CG10-H-BL cation component in MBD-16 allows for efficient resin separation. The cation component, CG10-H-BL, is black in color and provides optimized color difference from SBG1-OH to verify resin separation ahead of the regeneration process.

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% SBG1P-OH, 40% CG10-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](https://www.resintech.com)

Page 3 of 3

Last Update: 15-Dec-25

