

MBD-15-SC

Mixed bed resin, styrene/DVB gel, semiconductor grade, hydrogen & hydroxide form

ResinTech MBD-15-SC is a mixture of a dark-colored hydrogen form cation resin and a hydroxide form type 1 strong base anion resin. The resin ratio is 1:1 on an equivalent basis. The SC grade means it has been functionally tested to produce >18 megohm resistivity and under 50 ppb of TOC. MBD-15-SC is intended for use in polishing mixed bed deionization applications that require high resistivity and very low TOC.



FEATURES & BENEFITS

- High Purity Performance
- Ease Of Separation
- Superior Thermal And Physical Stability
- Ideal For Portable Exchange Di Systems
- Complies With US FDA Regulations

APPLICATIONS

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



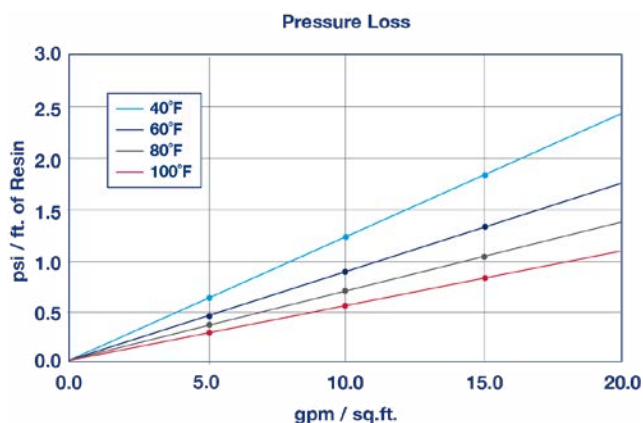
REACH Registered

Conforms to §21CFR173.25 of the USFDA Food Additives Regulations

MBD-15-SC

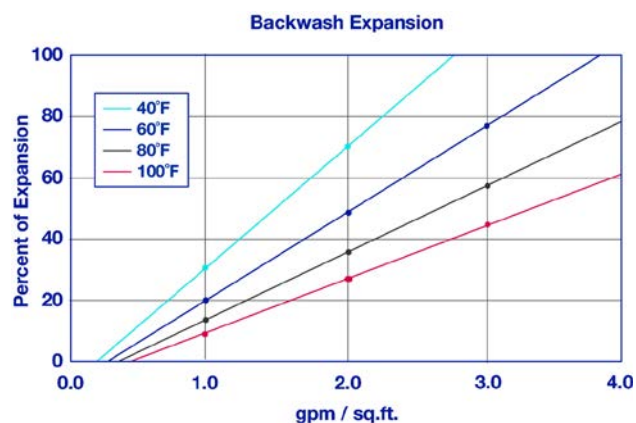
Polymer Matrix	Styrene/DVB	Reversible Swelling	12 to 17% (Na ⁺ /Cl ⁻ → H ⁺ /OH ⁻)
Polymer Type	Gel	Uniformity	Gaussian
Component(s)	60% SBG1P-OH,40% CG8-H-BL	Capacity (meq/mL)	0.60
Ionic Form (as shipped)	Hydrogen & Hydroxide (H ⁺ / OH ⁻)	Moisture Retention (%)	53 to 65
Physical Form	Spherical Beads	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-15-SC 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-15-SC as a function of flow rate at various temperatures.

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	140°F (60°C)	Flow Rate	
Minimum Bed Depth	24 in. (61.0 cm)	Working Service	1-5 gpm/cu.ft. (8-40 BV/h)
Maximum Pressure Loss	25 psi (172 kPa)	Polishing	3-15 gpm/cu.ft. (24-120 BV/h)
Operating pH Range	2.0 to 12.0		



IN PLACE REGENERATION

ResinTech MBD-15 SC is ideal for in-place regenerated mixed beds, especially if they are set up for the 60/40 anion to cation ratio that is optimum for most mixed bed polishers. The cation component has optimized bead size to separate cleanly from the anion component.

PORTABLE EXCHANGE DEIONIZATION (PEDI)

ResinTech MBD-15 SC 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. The mixed resin can be separated into its components for regeneration and reused hundreds or thousands of times. The cation component is dark in color and provides optimized color difference from the anion. This color difference is very helpful to verify resin separation during backwash.

EVERY LOT CERTIFIED

Every lot of MBD-15 SC is tested to verify capacity under load, ability to rinse above 18 megohms and to rinse down below 50 ppb of TOC. Lot certification is available upon request.

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% 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