MBD-ULTRA

Grade: Ultra

Mixed bed resin, styrene/DVB gel, high capacity & high-purity, hydrogen & hydroxide form

ResinTech MBD-ULTRA is a 2:3 volumetric mixture of CG8-H-BL (a dark-colored hydrogen form cation resin) and SBG1-OH (a hydroxide form type 1 strong base anion resin). The ULTRA grade means it has been functionally tested to produce >18 megohm resistivity and under 2 ppb of TOC. MBD-ULTRA is intended for use in all mixed bed deionization applications that require high resistivity and high throughput capacity.

FEATURES & BENEFITS

- Rapid rinse to quality
- Certified performance testing
- Cation and anion components available separately
- Special packaging available to extend shelf life

APPLICATIONS

- Cartridge Applications
- Portable Exchange Deionization (PEDI)
- Demineralization / DI
- Low Metals Content
- Ultrapure Water Production (UPW)
- Low TOC

COMPONENT 1

Media & Volumetric %	60% SBG1P-OH
Media Category	Strong Base Anion
Polymer Type	Gel
Polymer Matrix	Styrene/DVB
Functional Group	Trimethylamine
Ionic Form	Hydroxide (OH^-)
Physical Form	Spherical Beads
Capacity	1.00
Moisture Retention (%)	52 to 60
Media Color	Yellow to Orange

COMPONENT 2

Media & Volumetric %	40% CG8-H-BL
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	Dark Brown to Black

PHYSICAL PROPERTIES

Particle Size	16-50 US mesh (297-1190µm)
< 50 mesh (300 µm) %	< 1%
Reversible Swelling	12 to 17% (H+/OH- → Na+/Cl-)

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	140°F (60°C)
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)
Polishing	3-15 gpm/cu.ft. (24-120 BV/h)

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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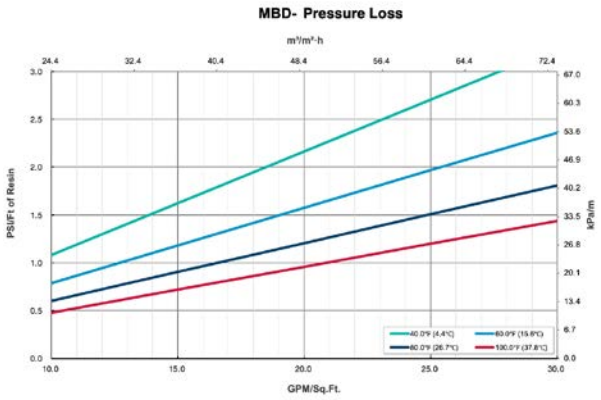
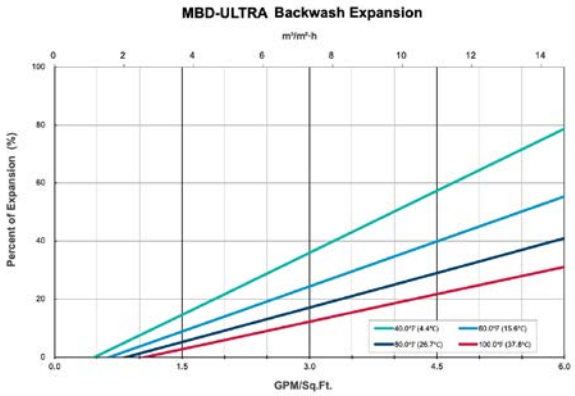
MBD-ULTRA

PRESSURE LOSS



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

CERTIFICATIONS

REACH Registered

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

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

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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