PRODUCT SPECIFICATION SHEET

MAGNA

MBD-15-ULTRA

MIXED BED

ULTRA-HIGH PURITY MIXED BED
POLYSTYRENIC GEL
H / OH FORM

ResinTech MBD-15-ULTRA is a 2:3 volumetric mixture of CG8-H-BL (a dark-colored hydrogen form cation resin) and SBG1P-OH (a hydroxide form type 1 porous strong center anion resin). The ULTRA grade means it has been functionally tested to produce > 18 megohm resistivity and under 2 ppb of TOC. MBD-15-ULTRA is intended for use in all mixed bed deionization applications that require high resistivity and high throughput capacity.

APPLICATIONS

- Portable Exchange Deionization (PEDI)

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Gel
Ionic Form	Hydrogen & Hydroxide
Fuctional Group	Sulfonic Acid / Trimethylamine
Physical Form	Spherical Beads
Particle Size	16 to 50 US Mesh (297 - 1190 µm)
% < 50 mesh (300µm)	< 1%
Reversible Swelling	H/OH to Na/Cl -15% to -17%
Temp Limit	140°F (60°C)
Capacity (meq/mL)	0.55
Moisture Retention	57% to 65%
Shipping Weight	42 - 44 lbs/ft³ (673 - 705 g/L)
Color	Brown / Black & Amber
Regenerability	Yes

PACKAGING OPTIONS

- 500 ml samples
- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

Revision 1.0

MADE IN AMERICA

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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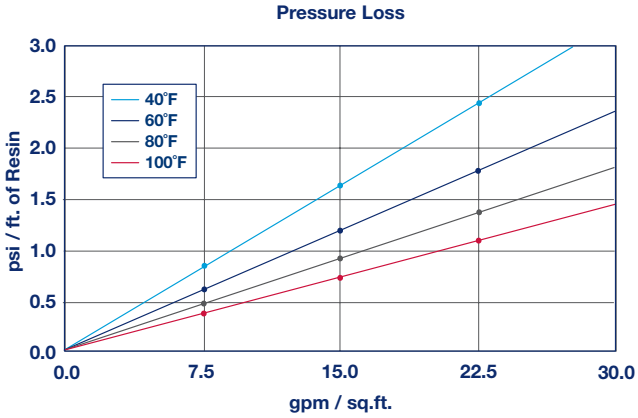

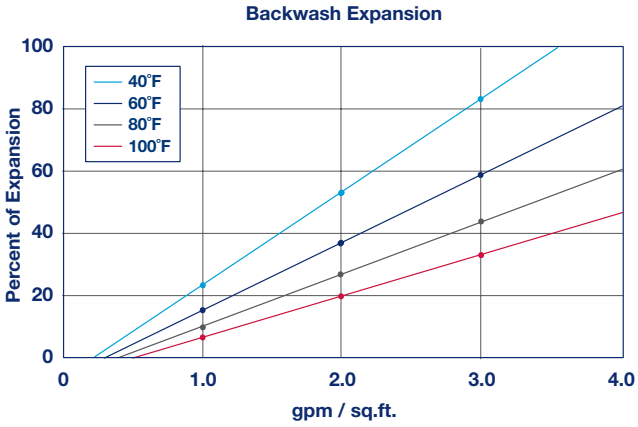

MAXIMUM IMPURITIES

Metallic Impurities (moist basis)	
Sodium (Na) ppm	< 40
Iron (Fe) ppm	< 50
Copper (Cu) ppm	< 10
Aluminum (Al) ppm	< 30
Calcium (Ca) ppm	< 30
Magnesium (Mg) ppm	< 30
Heavy metals (Pb) ppm	< 10
Anionic Impurities	
Equivalent percent Chloride (% Cl)	< 0.2
Equivalent percent Sulfate (% SO4)	< 0.2
Equivalent percent Hydroxide (% OH)	> 95
Leachable TOC	
BV's rinse (at 0.5 BV/min)	(Max ppb TOC)
25	25
50	5
100	1

ULTRAPURE WATER

ResinTech MBD-15 ULTRA is a mixed bed ion exchange resin that has been optimized in every respect to produce the highest possible water quality. The cation and the anion components are very highly regenerated and then post-treated using a proprietary process to remove traces of TOC leachables and other undesirable contaminants. The use of black cation resin with uniform bead size along with a slightly smaller anion bead size, helps produce a sharp separation that is easy to see, greatly simplifying the regeneration process.

SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	140˚F
Maximum intermittent temperature	180˚F
Minimum bed depth	24 inches
Backwash expansion	50 to 100 percent
Maximum pressure loss	25 psi
Operating pH range	2 to 12 SU
Service flow rate	
Working	1 to 5 gpm per cu. ft.
Polishing	3 to 15 gpm per cu. ft.

Note: These guidelines describe average low risk operating conditions. They are not intended to be absolute minimums or maximums.
For operation outside these guidelines, contact ResinTech Technical Support

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