

MBDULTRA

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

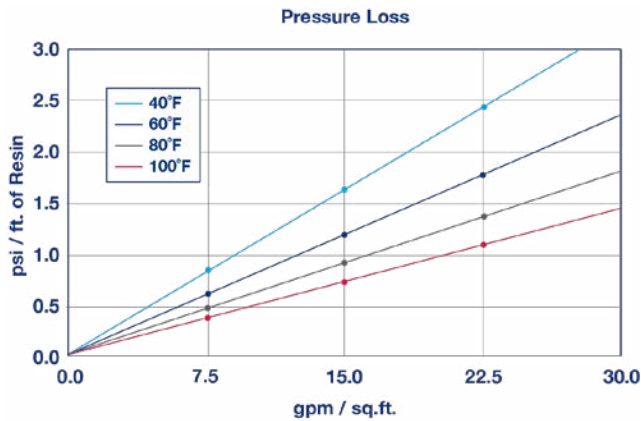
REACH Registered

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

MBDULTRA

Polymer Type	Gel	< 50 mesh (300 µm) %	< 1%
Component(s)	40% CG8-H-BL,1% SBG1P-OH	Reversible Swelling	12 to 17% (H+/OH- → Na+/Cl-)
Ionic Form (as shipped)	Hydrogen & Hydroxide (H ⁺ / OH ⁻)	Uniformity	Gaussian
Physical Form	Spherical Beads	Capacity (meq/mL)	0.60
Particle Size US Mesh (µm)	16 (1190) to 50 (297)	Moisture Retention (%)	55 to 60
		Color	Amber Dark Brown to Black

PRESSURE LOSS



The graph above shows the expected pressure loss of ResinTech MBDULTRA per foot of bed depth as a function of flow rate at various temperatures.

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	180°F (82°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		

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

40% CG8-H-BL,1% SBG1P-OH



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: 17-Apr-26

