

## MBD-10-NH<sub>4</sub>

### Mixed bed resin, styrene/DVB gel, condensate polishing grade, ammonium & hydroxide form

ResinTech MBD-10-NH<sub>4</sub> is a 2:3 volumetric mixture of CG8-NH<sub>4</sub>-BL (a dark-colored ammonium form cation resin) and SBG1-OH (a hydroxide form type 1 strong base anion resin). The volume ratio is close to 1:1 on an equivalent basis and the component resins are chosen to separate easily for regeneration. MBD-10-NH<sub>4</sub> is intended for use in mixed bed applications such as condensate polishing that require an ammoniated cation component.



#### APPLICATIONS

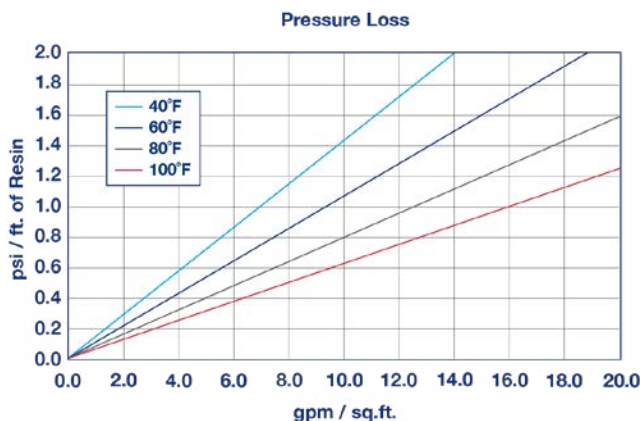
- Cartridge Applications
- Demineralization / DI
- Portable Exchange Deionization (PEDI)

REACH Registered

MBD-10-NH<sub>4</sub>

|                            |  |                        |   |
|----------------------------|--|------------------------|---|
| Polymer Matrix             | Styrene/DVB  | < 50 mesh (300 μm) %   | < 1%  |
| Polymer Type               | Gel  | Reversible Swelling    | 12 to 15% (H <sup>+</sup> /OH <sup>-</sup> → Na <sup>+</sup> /Cl <sup>-</sup> ) |
| Component(s)               | 60% SBG1-OH,40% CG8-NH4  | Uniformity             | Gaussian  |
| Ionic Form (as shipped)    | Ammonium & Hydroxide (NH <sub>4</sub> <sup>+</sup> / OH <sup>-</sup> ) | Capacity (meq/mL)      | 0.60  |
| Physical Form              | Spherical Beads  | Moisture Retention (%) | 53 to 62  |
| Particle Size US Mesh (μm) | 16 (1190) to 50 (297)  | Shipping Weight        | 42 - 44 lbs/cu.ft. (673 - 705 g/L)  |
|                            |  | Color                  | Amber Dark Brown to Black   |

**PRESSURE LOSS**



The graph above shows the expected pressure loss of ResinTech MBD-10-NH<sub>4</sub> per foot of bed depth 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      |                 |                               |

**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% SBG1-OH,40% CG8-NH4



**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)

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