MBD-30

Color-indicating mixed bed resin, styrene/DVB gel, hydrogen & free base form

ResinTech MBD-30 is a 1:1 volumetric mixture of CG8-H (an amber-colored hydrogen form cation resin) and SBG1P-OH-ID (a dyed hydroxide form type 1 porous strong base anion resin). The anion component is infused with a permanent pH indicator dye that changes color from blue to amber as the resin exhausts. MBD-30 is intended for use in cartridge applications where a color indication of resin exhaustion is desired.

FEATURES & BENEFITS

- Color Indicating Resin
- Designed For Cartridge Use
- High Total Capacity
- Controlled Particle Size

APPLICATIONS

- Cartridge Applications

COMPONENT 1

Media & Volumetric %	50% SBG1P-OH-ID
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 (%)	53 to 60
Media Color	Blue

COMPONENT 2

Media & Volumetric %	50% CG8-H
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	Amber to Brown

PHYSICAL PROPERTIES

Particle Size	16-50 US mesh (297-1190µm)
< 50 mesh (300 µm) %	< 1
Reversible Swelling	12 to 17% ($Na^+/Cl^- \rightarrow H^+/OH^-$)
Shipping Weight	42 - 44 lbs/cu.ft. (673 - 705 g/L)

SUGGESTED OPERATING CONDITIONS

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)

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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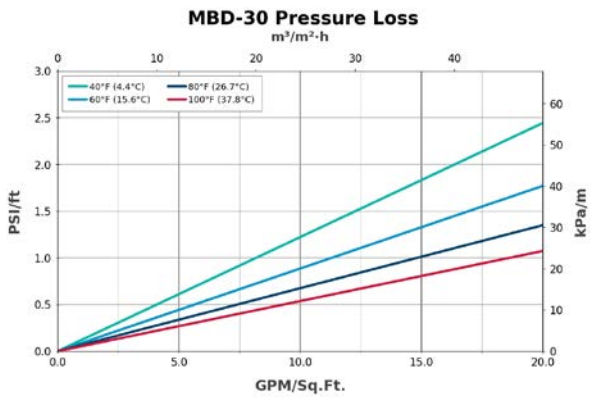
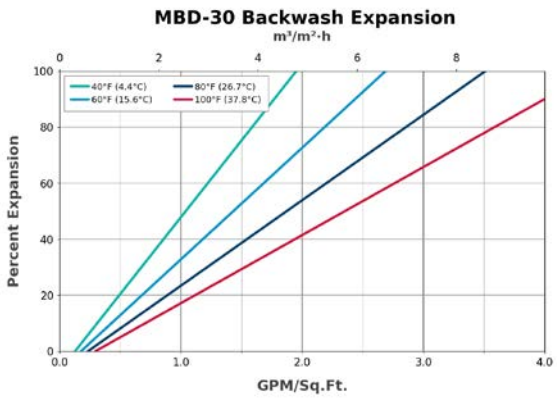
PRESSURE LOSS



The graph above shows the expected pressure loss of ResinTech MBD-30 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-30 as a function of flow rate at various temperatures.

CARTRIDGE USE

ResinTech MBD-30 premixed mixed bed resin is ideal for single use cartridge applications where visual indication of exhaustion is desired. The anion component of MBD-30 is dyed dark blue and turns amber in color as the resin exhausts. The ratio of anion to cation resin is optimized to provide balanced exchange of both cations and anions and to ensure the resin changes color as it exhausts.

AQUARIUM USE

ResinTech MBD-30 is ideal for aquarium applications where a color change is useful to indicate resin exhaustion. The anion component is dyed dark blue and turns amber as the anion resin exhausts. The mixture is specially formulated so that the color change is sharp and easy to see. The dye used in MBD-30 is non-hazardous, is permanently absorbed by the resin, and does not come out.

STEAM IRON USE

ResinTech MBD-30 can be used in clear cartridges or pouches for steam iron and other miscellaneous uses of deionized water. The mixture remains active even when fluidized and effectively removes hardness and other salts from the water so that scale does not form on heating surfaces during use. The color changing anion component remains blue until the resin is spent, then turns from blue to amber, indicating the need to replace the resin.

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CERTIFICATIONS

REACH Registered

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

Shipping Weight

42 - 44 lbs/cu.ft. (673 - 705 g/L)

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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