RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

MBD-NANO

MIXED BED RESIN
ULTRAPURE WATER
H/OH FORM

RESINTECH MBD-NANO is a one-to-one equivalent mixture of CG8-H-BL (a hydrogen form dark colored strong acid cation resin) and SBG1P-OH (a hydroxide form type 1 strong base anion resin). *RESINTECH MBD-NANO* utilizes a highly regenerated cation component paired with an ultra-low TOC highly regenerated anion component. *MBD-NANO* is intended for use in the highest purity applications where the highest effluent water quality and low TOC are needed. *RESINTECH MBD-NANO* is supplied ready to use with the cation component in the hydrogen form and the anion component in the hydroxide form.

FEATURES & BENEFITS

- **RAPID RINSE TO QUALITY**
  Nearly instant rinse up to 18 megohms resistivity and rinse down to less than 1 ppb TOC (above blank) in under 50 bed volumes of startup rinse
- **ULTRA HIGH PURITY**
  Polishes water to sub-ppb levels of inorganics
- **CERTIFIED PERFORMANCE TESTING**
  Each production batch available with Certificate of Analysis showing TOC rinsedown, resistivity rinse to 18 megohm quality, and response to kinetic challenge
- **SPECIAL PACKAGING TO EXTEND SHELF LIFE**
  Packaged in gas barrier drum liners prevents air from contacting the resin

Rinse water quality greater than 17 megohms resistivity and less than 2 ppb TOC.

PHYSICAL PROPERTIES

Polymer Structure	Styrene/DVB
Polymer type	Gel
Functional Group	
Cation component	Sulfonic acid
Anion component	Trimethylamine
Physical Form	Spherical beads
Ionic Form as shipped	Hydrogen/Hydroxide
Column Capacity	>0.60 meq/mL
Volume ratio Cation/Anion	40/60 percent
Water Retention	55 to 60 percent
Approximate Shipping Weight	43 lbs per cu. ft.
Screen size distribution (U.S. Mesh)	
Cation component	16 to 50
Anion component	16 to 40
Resin Color	
Cation component	Brown to black
Anion component	Amber

Note: Physical properties can be certified on a per lot basis, available upon request

SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	140˚F
Maximum Intermitent temperature	180˚F
Minimum bed depth	24 inches
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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