

**AMBERLITE® MB150**

Regenerable Mixed Bed Resin

PRODUCT DATA SHEET

AMBERLITE MB150 is an ionically equilibrated mixed bed resin. Ready for use, as supplied, it is a mixture of a strongly acidic cation resin and a strongly basic, type 1 anion exchange resin.

AMBERLITE MB150 is used for the production of high purity water and other applications requiring totally demineralized water.

PROPERTIES

Physical Form _____	Spherical beads, in a moist, fully hydrated condition
Ionic Form, as shipped _____	Hydrogen/Hydroxide
Cation to Anion equivalent ratio _____	1/1
Volumetric Composition _____	40% Cation/60% Anion
Volumetric Capacity _____	12 kgr/ft ³ (approximate)
Shipping Weight _____	43 lb/ft ³
Particle Size	
Uniformity Coefficient _____	1.7 maximum
Screen Grading _____	16 to 50 mesh (US Std Screen)
Screen Analysis _____	5% maximum on 16 mesh (US standard Screen)
	0.5% (approx.) thru a 50 mesh (US Standard Screen)
Chemical Stability _____	Insoluble in water, dilute solutions of acids or bases and common solvents

SUGGESTED OPERATING CONDITIONS

pH Range _____	0 to 14
Maximum Operating Temperature _____	140 °F
Minimum Bed Depth _____	24 inches
Service Flow Rate _____	2 to 5 gpm/ft ³
Regenerant	
Cation _____	HCl or H ₂ SO ₄
Anion _____	NaOH

OPERATING CAPACITY

AMBERLITE MB150 will exhibit a nominal operating capacity of 12 kgr/ft³ with 80% of the capacity producing water quality above 10 megohm.

REGENERATION

If required, AMBERLITE MB150, resin can be regenerated after exhaustion. The resin mixture must be separated into its component parts by backwashing and the cation component regenerated with acid of the proper concentration

and the anion component regenerated with sodium hydroxide of the proper concentration.

RECOMMENDED APPLICATIONS

AMBERLITE MB150 resin is suitable for many industrial water treatment applications and is an excellent choice for portable exchange deionization. This resin provides high capacity with reliable production of the highest quality water and rapid rinse.

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Ion exchange resins and polymeric adsorbents, as produced, contain by-products resulting from the manufacturing process. The user must determine the extent to which organic by-products must be removed for any particular use and establish techniques to assure that the appropriate level of purity is achieved for that use. The user must ensure compliance with all prudent safety standards and regulatory requirements governing the application. Except where specifically otherwise stated, Rohm and Haas Company does not recommend its ion exchange resins or polymeric adsorbents, as supplied, as being suitable or appropriately pure for any particular use. Consult your Rohm and Haas technical representative for further information. Acidic and basic regenerant solutions are corrosive and should be handled in a manner that will prevent eye and skin contact. Nitric acid and other strong oxidising agents can cause explosive type reactions when mixed with Ion Exchange resins. Proper design of process equipment to prevent rapid buildup of pressure is necessary if use of an oxidising agent such as nitric acid is contemplated. Before using strong oxidising agents in contact with Ion Exchange Resins, consult sources knowledgeable in the handling of these materials.

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