

AMBERLITE™ MB6113

Industrial Grade Non-Regenerable Mixed Bed Resin

AMBERLITE MB6113 resin is an ionically equilibrated mixed bed resin. It is a mixture of a strongly acidic cation exchanger with a strongly basic type 1 anion exchanger. Supplied in the regenerated form, it is specially designed for the

production of high quality water. A colour indicator allows the visualisation of the exhaustion point of the resin. After exhaustion, AMBERLITE MB6113 resin cannot be regenerated.

PROPERTIES

Composition in volume ^[1] _____	Cation exchanger : 41 % ± 4 % Anion exchanger : 59 % ± 4 %
Ionic form as shipped _____	H ⁺ / OH ⁻
Percentage of regeneration _____	Cation component : H ⁺ (95 % min) Anion component : OH ⁻ (90 % min)
Shipping weight _____	704 g/L

^[1] Contractual value
 Test methods available upon request.

SUGGESTED OPERATING CONDITIONS

Maximum operating temperature _____	60°C
Service flow rate _____	10 to 60 BV*/h
Colour indicator _____	Between blue and green (regenerated form) Light brown (exhausted form)

* 1 BV (Bed Volume) = 1 m³ solution per m³ resin

PERFORMANCE

Operating capacity

The following formula gives an approximate determination of volume that can be treated :

$$BV = \frac{550}{TDS}$$

BV (Bed Volume) is the number of litres of a water containing a TDS (Total Dissolved Solids) given in meq/L that can be demineralised with one litre of the resin mixture when run to exhaustion.

Treated water conductivity

In polishing applications, say with a feed of less than 10 µS/cm, AMBERLITE MB6113 resin should produce a water with less than 0.1 µS/cm. In cases where the feed water has high conductivity (up to say 500 µS/cm) the water should still have less than 1 µS/cm.

LIMITS OF USE

AMBERLITE MB6113 resin is suitable for industrial uses. For all other specific applications such as pharmaceutical, food processing or potable water applications, it is recommended that all potential users seek advice from Rohm and Haas in order to determine the best resin choice and optimum operating conditions.



AMBERLITE is a trademark of Rohm and Haas Company and its affiliates, Philadelphia, U.S.A.

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.

Rohm and Haas Company makes no warranties either expressed or implied as to the accuracy or appropriateness of these data and expressly excludes any liability upon Rohm and Haas arising out of its use. We recommend that the prospective users determine for themselves the suitability of Rohm and Haas materials and suggestions for any use prior to their adoption. Suggestions for uses of our products of the inclusion of descriptive material from patents and the citation of specific patents in this publication should not be understood as recommending the use of our products in violation of any patent or as permission or license to use any patents of the Rohm and Haas Company and its affiliates. Material Safety Data Sheets outlining the hazards and handling methods for our products are available on request.