



AMBERLITE® MB20

Industrial Grade -Regenerable Mixed Bed Resin

PRODUCT DATA SHEET

AMBERLITE MB20 is an ionically equilibrated mixed bed resin. Ready for use, it is a mixture of a strongly acidic cation exchanger with a strongly basic type 1 anion exchanger. AMBERLITE MB20 has been developed for the production of high purity

water. It can be used for all applications requiring totally demineralised water, free of silica and of carbon dioxide.

PROPERTIES

Composition in volume ^[1] _____

Cation component : 38 to 44 %.

Anion component : 56 -to 62 %.

Ionic form as shipped _____

H⁺ / OH⁻

Bulk density ^[1] _____

665 to 740 g/L

Chemical stability _____

Insoluble in water, dilute solution of acids and bases or common solvents

^[1] Contractual value

Test methods are available on request.

SUGGESTED OPERATING CONDITIONS

Maximum operating temperature _____

60°C

Minimum bed depth _____

700 mm

Service flow rate _____

20 to 40 BV*/h

Regenerants _____

Cation component : HCl or H₂SO₄

Anion component : NaOH

* 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 :

$$BV = \frac{500}{TDS}$$

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.

Regeneration

If required, AMBERLITE MB20 can be regenerated after exhaustion. Both components must be separated by backwashing and regenerated separately.

Resistivity

AMBERLITE MB20, designed for the treatment of raw water with a salinity up to 8 meq/L, can obtain a resistivity higher than 1 megohm. In polishing applications, the resistivity will be higher than 5 megohms.

LIMITS OF USE

AMBERLITE MB9L 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.

All our products are produced in ISO 9002 certified manufacturing facilities.

Rohm and Haas/Ion Exchange Resins - Philadelphia, PA - Tel. (800) RH AMBER - Fax: (215) 537-4157
Rohm and Haas/Ion Exchange Resins - 75579 Paris Cedex 12 - Tel. (33) 1 40 02 50 00 - Fax : 1 43 45 28 19

WEB SITE: <http://www.rohmhaas.com/ionexchange>



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