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: \(\text{H}^+ / \text{OH}^-\)

Percentage of regeneration:  
- Cation component: \(\text{H}^+\) (95% min)
- Anion component: \(\text{OH}^-\) (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)

\(* 1 \text{ BV (Bed Volume)} = 1 \text{ m}^3 \text{ solution per m}^2 \text{ resin} \)
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.