AMBERLITE™ MB20
Industrial Grade - Regenerable Mixed Bed Resin

AMBERLITE MB20 resin is an ionically equilibrated mixed bed resin. It is a fully regenerated, ready to use mixture of a strongly acidic cation exchanger with a strongly basic type 1 anion exchanger. AMBERLITE MB20 resin 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⁻

Shipping weight _____________________________
715 g/L

Particle size
<0.300 mm ________________________________
3 % max

[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

Regeneration
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 resin can be regenerated after exhaustion. Both components must be separated by backwashing and regenerated separately.

Treated water conductivity

In polishing applications, say with a feed of less than 10 µS/cm, the resins AMBERLITE MB20 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 MB20 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.