

# INDION® MB 12

## Description

INDION MB 12 is a mixed bed ion exchange resin. It is a mixture of highly purified and super regenerated strong acid cation and strong base anion in 1:2 stoichiometrically equivalent volume ratio of cation in H form and anion in OH form.

## Applications

INDION MB 12 is recommended in any non regenerable mixed bed application where reliable production of the highest quality water is required and where "as supplied" resin must have an absolute minimum of ionic and nonionic contamination.

### Characteristics

#### Physical

Appearance	:	Spherical beads
Shipping weight *	:	700 kg/m <sup>3</sup> , approximately
Particle size range	:	0.3 to 1.2 mm
> 1.2 mm	:	5.0%, maximum
< 0.3 mm	:	1.0%, maximum
Uniformity co-efficient	:	1.7, maximum
Effective size	:	0.45 to 0.55 mm
Microscopic Examination	:	Surface cracks not more than 5 %

#### Chemical

	Cation resin	Anion resin
Matrix	Crosslinked polystyrene	Crosslinked polystyrene
Type	Gel	Gel
Functional Group	Sulphonic acid	Quaternary ammonium
Total exchange capacity	1.9 meq/ml	1.0 meq/ml
Ionic conversion	99 % minimum in H form	90 % minimum in OH form
Moisture holding capacity	47 - 55 %	48 - 58 % ( in Cl form )
Thermal stability	Up to 120° C	Up to 60° C
Chemical stability	:	Stable in pH range 0 - 14 Resistant to oxidizing and reducing agents

\* Weight of resin, as supplied, occupying 1 m<sup>3</sup> in a unit after backwashing and draining.

## Variant

INDION MB 12 resin is also available with the additional feature of colour change at exhaustion. Three variants of this colour indicating Indion MB 12 are available :

Indion MB 12 ( GVI ) Green to Violet  
Indion MB 12 ( BYI ) Blue to Yellow  
Indion MB 12 ( GOI ) Green to Orange

## Packing

PVC Jars with inner liner bags	5 / 6 lts
LDPE lined bags	0.5 cft / 1 cft / 25 lts
HDPE lined bags	25 / 50 lts
HDPE drums	50 / 100 / 180 lts

## Storage

Ion exchange resins require proper care at all times. Resins must never be allowed to become dry. Resins should therefore be always kept in shade. Since INDION MB 12 is supplied in highly regenerated condition, any exposure to atmospheric air must be avoided as this will convert it to the carbonate form. The resin packing should not be opened during storage.

## Safety

Acid and alkali solutions used for regeneration are corrosive and should be handled in a manner that will prevent eye and skin contact. If any oxidising agents are used, necessary safety precautions should be observed to avoid accidents and damage to the resin.

INDION range of Ion Exchange resins are produced in a state-of-the-art ISO 9001 and ISO 14001 certified manufacturing facilities at Ankleshwar, in the state of Gujarat in India.

To the best of our knowledge the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without notice.

**INDION** is the registered trademark of Ion Exchange (India) Ltd.



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