

# INDION® 303

## Description

INDION 303 is a high capacity strongly acidic cation exchanger in bead form. It is based on crosslinked polystyrene and has a gel structure. The resin contains sulphonic acid functional groups. The resin has an indicator inbuilt in the matrix which changes colour at the time of exhaustion.

## Applications

INDION 303 is recommended in any non regenerable mixed bed application where reliable production of the highest quality of water is required. A colour indicator allows the visualization of the exhaustion point of the resin.

### Characteristics

Appearance	:	Moist green coloured beads
Matrix	:	Polystyrene divinylbenzene copolymer
Functional Group	:	Sulphonic acid
Ionic form as supplied	:	Hydrogen
Total exchange capacity (in Na form)	:	1.8 meq/ml, minimum
Moisture holding capacity	:	55 - 60%
Shipping weight *	:	800 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
Maximum operating temperature	:	120° C
Colour indicator	:	Green(regenerated form) Violet (exhausted form)
Operating pH range	:	0 to 14
Volume change	:	Na to H, 6 % minimum
Resistance to reducing agents	:	Good
Resistance to oxidizing agents	:	Generally good, chlorine should be absent

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

## Packing

HDPE Lined bags	25/ 50 lts	LDPE bags	1 cft / 25 lts
Super sack	1000 lts	Super sack	35 cft
MS drums		Fiber drums	
with liner bags	180 lts	with liner bags	7 cft

## Storage

Ion exchange resins require proper care at all times. The resin must never be allowed to become dry. Regularly open the plastic bags and check the condition

of the resin when in storage. If not moist, add enough clean demineralised water and keep it in completely moist condition. Always keep the resin drum in the shade. Recommended storage temperature is between 20° C and 40° C

## 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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