

# INDION® N-IP

## Description

INDION NIP is a Type 2 strong base anion exchange resin in bead form having benzyl dimethyl-ethanol-ammonium groups. These groups are less strongly basic than those in Type 1 resins, resulting in a higher regeneration efficiency with lower operating costs.

INDION NIP is based on cross-linked polystyrene, and has an isoporous structure.

INDION NIP has a high capacity for the natural organic matter present in some surface waters and has excellent resistance to poisoning by this organic matter.

### Characteristics

Appearance	:	Translucent red brown beads
Matrix	:	Styrene -EDMA copolymer
Functional Group	:	Benzyl dimethyl ethanol amine
Ionic form as supplied	:	Chloride
Total exchange capacity	:	1.2 meq/ml, minimum
Moisture holding capacity	:	45 - 53 %
Shipping weight *	:	690 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
Volume change	:	Cl to OH, 10-15 % approximately
Maximum operating temperature	:	40°C
Operating pH range	:	0 to 14
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 & draining.

## Use of good quality regenerants

All ion exchange resins are subject to fouling and blockage of active groups by precipitated iron. Hence the iron content in the feed water should be low and the regenerant sodium hydroxide must be essentially free from iron and heavy metals. All resins, especially the anion exchangers are prone to oxidative attack resulting in problems such as loss of capacity, resin clumping, etc. Therefore sodium hydroxide should have as low a chlorate content as possible. Good quality regenerant of technical or chemically pure grade should be used to obtain best results.

## Packing

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

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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