

# INDION® 222 Na NS

## Description

INDION 222 Na NS is a non solvent cation exchanger resin that is being produced without the use of environmentally harmful solvents. It is based on cross linked polystyrene strongly acidic cation resin with high capacity and has a dark brown translucent

bead. The resin contains a sulphonic acid functional groups.

INDION 222 Na NS is used moist in sodium form for water softening applications. It can also be used in two stage de-ionising as the cation exchanger in the hydrogen cycle.

Characteristics	
Appearance	Brown to dark brown colour beads
Matrix	Styrene Divinylbenzene Copolymer
Functional group	Sulphonic acid
Ionic form as supplied	Sodium
Total exchange capacity	1.9 meq/ml, minimum
Moisture holding capacity	43 – 49%
Shipping weight*	790 – 830 kg/m <sup>3</sup>
Particle size range	0.3 to 1.2 mm
> 1.2 mm	5.0 %, minimum
< 0.30 mm	1.0 %, maximum
Effective Size	0.45 to 0.60
Uniformity Coefficient	1.7, maximum
Maximum operating temperature	120 <sup>0</sup> 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 and draining.	

## Recommended usage

It is highly recommended that the INDION 222 Na NS after charging in the service vessel should be thoroughly washed with 20 bv\* of deionised water, to ensure that the organic leachables are well within the limits. It may be noted that this procedure is to be carried out only after initial charge or in case the service vessel is out of operation for a long period.

\* 1 bv = 1 m<sup>3</sup> per m<sup>3</sup> of resin volume

## Packing

HDPE Lined bags	:	25/50 lts
LDPE bags	:	1 cft/25 lts
Super sack	:	1000 lts
Super sack	:	35/40/42 cft
MS/HDPE drums with liner bags	:	180/200 lts
Fiber drums with liner bags	:	7 cft

## Storage

Ion exchange resins require proper care at all times. The resins must never be allowed to become dry. Repeated drying and rewetting produce stresses analogous to those due to osmotic shock and can lead to fragmentation of Ion exchangers.

## 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 oxidizing 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**<sup>®</sup> is the registered trademark of Ion Exchange (India) Ltd.



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