

# INDION® 222 Na F

## Description

INDION 222 NaF is a strongly acidic cation exchange resin containing sulphonic acid groups. It is specially designed for the treatment of foodstuffs, beverages, portable water and water used in the processing of food. Its specification is in compliance with the U.S.

Food and Drug Administration Code of Federal Regulations section 21, paragraph 173.25, for use in the treatment of foods for human consumption. The resin is extremely robust and has excellent physical and chemical characteristics. It is supplied in moist condition in sodium form.

### Characteristics

Appearance	:	Golden yellow beads
Matrix	:	Styrene divinylbenzene copolymer
Functional Group	:	Sulphonic acid
Ionic form as supplied	:	Sodium
Total exchange capacity	:	1.92 meq/ml, minimum
Moisture holding capacity	:	47 - 53 %
Shipping weight *	:	820 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	:	140 °C
Operating pH range	:	0 to 14
Resistance to reducing agents	:	Good
Resistance to oxidizing agents	:	Generally good, chlorine should be absent
Organic extractives	:	1 mg/l maximum in deionised water
(As per USFDA 21 CFR 173.25)	:	1 mg/l maximum in 15% v/v ethanol solution

### Impurities

Iron	:	100 mg/l maximum as Fe
Heavy Metals	:	20 mg/l maximum as Pb
Arsenic	:	3 mg/l maximum as As

\* 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 222NaF 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 cft
MS drums		Fiber drums	
with liner bags	180 lts	with liner bags	7 cft



"Tested and certified by WQA against NSF/ANSI 61. See WQA website ([www.wqa.org](http://www.wqa.org)) for use restrictions and limitations".

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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