

# 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 *              | : | 800-840 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 0.60 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 / CAN 61 and NSF/ANSI 44 . See WQA website (www.wqa.org) for use restrictions & limitation."

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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### Manufacturing Units

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