INDION 225 NaF is a strongly acidic cation exchange resin containing sulphonic acid groups. It is specially designed for the treatment of foodstuffs, beverages, potable 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.

### Description

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### Characteristics

- **Appearance**: Golden yellow to brown beads
- **Matrix**: Styrene divinylbenzene copolymer
- **Functional Group**: Sulphonic acid
- **Ionic form as supplied**: Sodium
- **Total exchange capacity**: 2.0 meq/ml, minimum
- **Moisture holding capacity**: 43 - 50 %
- **Shipping weight**: 830 kg/m³, approximately
- **Particle size range**:
  - > 1.2 mm: 5.0%, maximum
  - < 0.3 mm: 1.0%, maximum
  - 0.3 to 1.2 mm: 1.7, maximum
- **Uniformity co-efficient**: 1.7, maximum
- **Effective size**: 0.45 to 0.55 mm
- **Treatment flow rate**: 5 - 40 bv/h
- **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**:
  - As per USFDA 21 CFR 173.25: 1 mg/l maximum in deionised water
  - 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 m³ in a unit after backwashing and draining.
Recommended usage

It is highly recommended that the INDION 225NaF 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 m³ per m³ 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

Storage

INDION 225 NaF resin beads must never be allowed to become dry. Therefore always store resin bags in the shade.

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.