

# INDION® 225 NaF

## Description

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.

### Characteristics

Physical form	Moist beads
Appearance	Golden yellow coloured clear beads
Particle size range	0.3 -1.2 mm
> 1.2 mm	2% v/v, maximum
< 0.3 mm	1% v/v, maximum
Uniformity co-efficient	1.7 maximum
Effective size	0.45 - 0.55 mm
Ionic form as supplied	Na <sup>+</sup>
Total exchange capacity	2.0 meq/ ml
Moisture content ( Nai)	43-50%
Organic extractives	1 ppm maximum in deionised water;
las per USFDA 21 CFR 173.25)	1 ppm maximum in 15% v/v ethanol solution
Impurities	
- Iron	100 ppm maximum as Fe
- Heavy metals	20 ppm maximum as Pb
- Arsenic	3 ppm maximum as As
Operating temperature	140°C, maximum
pH Stability	0to14
Resistance to oxidising agents	Generally good. Chlorine should be absent
Resistance to reducing agents	Good

### **Recommended usage**

It is highly recommended that the INDION 225 NaF 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

### **Packaging**

INDION 225 NaF is supplied in standard packs of 30 or 50 litres. The material is packed in plastic bags. Other packings can be considered on request.

### **Maintenance in storage**

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

### **Safety precautions**

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.

**INDION**



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