

INDION® 225 KF

Food Grade Strongly Acidic Cation Exchange Resin(Potassium form)

Description

INDION 225 KF is a strongly acidic cation exchange resin containing sulphonic acid groups. It is specially designed for the treatment of portable water. 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 potassium form.

Characteristics

Appearance	:	Golden yellow beads
Matrix	:	Styrene divinylbenzene copolymer
Functional Group	:	Sulphonic acid
Ionic form as supplied	:	Potassium
Total exchange capacity	:	2 meq/ml, minimum
Moisture holding capacity	:	43 - 50%
Shipping Weight *	:	830 kg/m ³ , 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 m³ in a unit after backwashing and draining.

Recommended Usage

.It is highly recommended that the INDION 225 KF 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	180 lts	Fiber drums	7 cft
with liner bags		with liner bags	

Storage

INDION 225 KF 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.

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. This product data sheet (issue 09/2008) replaces previous issues.

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



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