

INDION[®] 223 H

Description

INDION 223 H is a nuclear grade strongly acidic cation exchange resin. It is a gel type ion exchanger having cross linked polystyrene matrix and sulphonic acid

functionality. The resin is supplied in highly purified form, free from all impurities.

Characteristics

Appearance	:	Spherical beads
Matrix	:	Styrene divinylbenzene copolymer
Functional group	:	Sulphonic acid
Ionic form as supplied	:	Hydrogen
Bead strength	:	500 g, average
Microscopic examination	:	Surface cracks not more than 5%
Total exchange capacity	:	1.9 meq/ml, minimum
Moisture holding capacity	:	49 - 55 %
Shipping weight *	:	780 kg/m ³ , approximately
Particle size range	:	0.3 to 1.2 mm
> 1.2 mm	:	5.0%, maximum
< 0.3 mm	:	0.5%, maximum
Uniformity co-efficient	:	1.8, maximum
Effective size	:	0.45 to 0.60 mm
Stability	:	Stable up to 120 ^o C Stable in pH range 0 - 14 Resistant to oxidizing and reducing agents Stable in Radiation field up to 10 ⁷ rad

Impurities

Iron	:	20 mg/l, maximum
Copper	:	10 mg/l, maximum
Heavy metals as Pb	:	10 mg/l, maximum
Water soluble organics	:	0.1 mg KMnO ₄ /ml, maximum

* Weight of resin, as supplied, occupying 1 m³ in a unit after backwashing and draining.

Packing

HDPE Lined bags	25/ 50 lts	LDPE bags	1 cft / 25 lts
Super sack	1000 lts	Super sack	35 cft
MS drums with liner bags	180 lts	Fiber drums with liner bags	7 cft

Storage

Ion exchange resins require proper care at all times. The resins must never be allowed to become dry. The drum should therefore be always kept in shade in tightly closed condition.

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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