

INDION® CAM 14

Description

INDION CAM 14 is a nuclear grade mixed ion exchange resin. It is a mixture of highly purified and super regenerated INDION 223 H⁺ and INDION GS300 NG in volume ratio of 1:4.

Applications

INDION CAM 14 is recommended in any non regenerable mixed bed application where reliable production of the highest quality water is required and where "as supplied" resin must have an absolute minimum of ionic and nonionic contamination.

Characteristics

Physical

Appearance	:	Spherical beads
Shipping weight *	:	680 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
Microscopic Examination	:	Surface cracks not more than 5%

Chemical

Matrix
Type
Functional Group
Total exchange capacity
Ionic conversion

Cation resin

Styrene DVB copolymer
Gel
Sulphonic acid
1.8 meq/ml
99% minimum in H form

Anion resin

Styrene DVB copolymer
Gel
Quaternary ammonium
1.0 meq/ml
90% minimum in OH form
1% maximum in Cl form
5% maximum in CO₃ form
60%, maximum
250 g/bead, (avg)
Up to 60° C

Moisture holding capacity
Bead strength
Thermal stability

47 - 53 %
500 g/bead, (avg)
Up to 120° C

Chemical stability

: Stable in pH range 0 - 14
Resistant to oxidizing and reducing agents
Stable in Radiation field upto 10⁷ rad

Ionic impurities

Iron content : 20 mg/l, maximum as Fe
Copper content : 10 mg/l, maximum as Cu
Heavy metals : 10 mg/l, maximum as Pb
Water soluble Organics : 0.1 mg KMnO₄/ml maximum

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

Packing

PVC Jars with inner liner bags	5 / 6 lts
LDPE lined bags	0.5 cft / 1 cft / 25 lts
HDPE lined bags	25 / 50 lts
HDPE drums	50 / 100 / 180 lts

Storage

Ion exchange resins require proper care at all times. The resins must never be allowed to become dry. The drums should therefore be always kept in shade. Since INDION CAM 14 is supplied in highly regenerated

condition, any exposure to atmospheric air must be avoided as this will convert it to the carbonate form. The resin drums should therefore be kept 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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