

# INDION® CAM 1

## Description

INDION CAM 1 is a mixed ion exchange resin. It is a mixture of highly purified and super-regenerated strongly acidic and strongly basic Type I ion exchangers in 1:2 volume ratio. INDION CAM 1 is used to produce mixed bed quality water.

## Applications

INDION CAM 1 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 non-ionic contamination.

### Characteristics

#### Physical

Appearance	:	Spherical beads
Shipping weight *	:	710 kg/m <sup>3</sup> , 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	:	1.8, 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  
1.9 meq/ml  
99% minimum in H form

#### Anion resin

Styrene DVB copolymer  
Isoporous  
Quaternary ammonium  
1.0 meq/ml  
90% minimum in OH form  
1 % maximum in Cl form  
5% maximum in CO<sub>3</sub> form

Moisture holding capacity  
Bead strength  
Thermal stability

49 - 55 %  
500 g/bead, (avg)  
Up to 120° C

60 %,maximum  
50 g/bead, (avg)  
Up to 60° C

Chemical stability : Stable in pH range 0 - 14  
Resistant to oxidizing and reducing agents

\* Weight of resin, as supplied, occupying 1 m<sup>3</sup> 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 1 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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