

INDION® SRCD-I

Polyiodide Resin

A potent tool for the disinfection of drinking water

Description

INDION SRCD-I is a crosslinked co-polymer impregnated with iodine. An anion exchange resin in Polyiodide form, it is however, a contact disinfectant and not a conventional ion exchanger. When water is passed through INDION SRCD-I, it releases iodine. This makes it an excellent disinfectant due to destruction of various disease producing micro-organisms present in water. It may be noted that merely soaking INDION SRCD-I in stationary water will not release iodine. The unique polymeric structure of INDION SRCD-I ensures release of a controlled quantity of iodine in the treated water.

This iodinated material enhances the microbiocidal power of iodine, resulting in rapid disinfection when compared with iodine alone. Thus, pathogenic bacteria and viruses are destroyed rapidly. Micro-organisms are killed on contact with the resin. The Polyiodide functional groups destroy the quaternary protein structure, oxidising the disulphide bond in the cell wall and cell cytoplasm of the organisms. The water coming in contact with INDION SRCD-I should be pre-treated to make it free from dirt, suspended solids & extraneous matter to avoid choking. This will give optimum performance during use.

Characteristics

Appearance	:	Black spherical beads
Matrix	:	Cross linked polymer impregnated with iodine
Ionic form as supplied	:	Polyiodide
Shipping Weight*	:	1170 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
Maximum operating temperature	:	15 ^o C - 35 ^o C
Operating pH range	:	6.5 - 8.5 **
Residual Iodine in treated water	:	0.5 - 1.1 mg/l ***
Capacity	:	7600 l/30 ml ***
Shelf Life	:	5 years (when stored in water in submerged condition)

** Caution: Alkaline/Acidic pH water will permanently impair the performance of SRCD-1

*** Under Standard test conditions.

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

Independent testing of SRCD - I

INDION SRCD-I has been extensively tested by several reputed laboratories in India and abroad for its efficacy to eliminate various organisms such as E.coli, Salmonella typhi NCL strain, Salmonella NICD strain, Shingella sp NICD strain, Pseudomonas aeruginosa, Staphylococcus aureus, Proteus vulgaris, Aerobacter aerogenes, Bacillus subtilis, Sarcina lutea, Salmonella enteritidis, Salmonella typhimurium, Legionella pneumophila, Polio virus, Caxsackievirus B I etc. Some of the institutes where INDION SRCD-I has been tested are listed below. Details of the test results can be made available on request.

- London School of Hygiene and Tropical Medicine, London.
- Singapore Institute of Standards and Industrial Research, Singapore.
- Shanghai Hygiene and Antiepidemic Centre and Shanghai 85 Hospital, Shanghai.
- Sanitary Health Service of the Armed Forces, Venezuela.
- King Edward VII Hospital, UK.
- The Agha Khan Hospital, Nairobi.
- National Public Health Laboratory, Ministry of Health, Kenya

- Institute of National Medicine, Argentina.
- Portacel, UK.
- Bombay Hospital Trust, Mumbai.
- Christian Medical College Hospital, Vellore.
- Medical College, Udaipur.
- Shriram Institute of Medical Research, Delhi.
- Haffkine Institute for Training, Research and Testing, Mumbai.
- Span Research Centre, Surat.
- Indian Institute of Toxicology, Pune.

The densities of all the organisms used in the study are several times greater than normally encountered.

Packing

HDPE Lined bags 40 / 50 kgs
double plastic liner bags

Storage

INDION SRCD-I should always be stored in water in submerged condition and must always be kept away from sunlight. Under ideal conditions its shelf life is 5 years.

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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