

# INDION<sup>®</sup> 223 Li

## Description

INDION 223 Li<sup>+</sup> is a nuclear grade strongly acidic cation exchange resin. It is a gel type ion exchanger having crosslinked 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	Lithium
Bead strength	500 g, average
Microscopic examination	Surface cracks not more than 5%
Total exchange capacity	1.9 meq/ml, minimum
Ionic conversion	99% of exchange sites in Li <sup>+</sup> form
Moisture holding capacity	47 - 53 %
Shipping weight*	790 - 850 kg/m <sup>3</sup>
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 <sup>o</sup> C
	Stable in pH range 0 - 14
	Resistant to oxidizing and reducing agents
	Stable in Radiation field up to 10 <sup>7</sup> 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 <sub>4</sub> /ml, maximum
*Weight of resin, as supplied, occupying 1 m <sup>3</sup> 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	:	35/40/42 cft
MS/HDPE drums with liner bags	:	180/200 lts
Fiber drums with liner bags	:	7 cft

## Storage

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

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**<sup>®</sup> is the registered trademark of Ion Exchange (India) Ltd.



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### Manufacturing Units

India - Ankleshwar | Hosur | Patancheru | Rabale | Verna | Wada

Overseas - Bangladesh | Indonesia | Saudi Arabia | UAE

All India Service and Dealer Network

[www.ionexchangeglobal.com](http://www.ionexchangeglobal.com) | [www.ionresins.com](http://www.ionresins.com)

