

# INDION® 525 H

## Description

INDION 525 H is a high-capacity strongly acidic cation exchanger containing sulphonic acid groups. It is based on crosslinked polystyrene with a gel structure and has a higher degree of cross-linkage compared to INDION 225 H. The resin is extremely robust and has excellent physical and chemical characteristics. It is supplied in the moist condition in the hydrogen form.

## Applications

INDION 525 H with its larger bead size, results in lower pressure loss, making it the most suitable resin for high-flow rate mixed bed units as well as for condensate polishing. INDION 525 H has a higher specific gravity leading to better separation from anion resin in mixed bed units. INDION 525 H is recommended for use in layered bed units along with weak acid cation exchanger INDION 236. This results in high regeneration efficiency and substantial savings in capital cost, as two different resins are used in a single vessel.

Characteristics	
Appearance	Translucent golden yellow to brown beads
Matrix	Styrene divinylbenzene copolymer
Functional Group	Sulphonic acid
Ionic form as supplied	Hydrogen
Total exchange capacity	1.95 meq/ml, minimum
Moisture holding capacity	44 - 49%
Shipping weight*	770 - 810 kg/m <sup>3</sup>
Particle size range	0.3 to 1.2 mm
> 1.2 mm	5.0%, maximum
< 0.355 mm	0.5%, maximum
Uniformity co-efficient	1.7, maximum
Effective size	0.45 to 0.60 mm
Volume change	Na to H, 6 - 9%
Maximum operating temperature	120° C
Operating pH range	0 to 14
Resistance to reducing agents	Good
Resistance to oxidizing agents	Generally good, chlorine should be absent
Osmotic stability	Excellent
*Weight of resin, as supplied, occupying 1m <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. Regularly open the plastic bags and check the

condition of the resin when in storage. If not moist, add enough clean demineralised water and keep it in completely moist 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

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