

INDION® 525 H NS

Description

INDION 525 H NS is a non solvent cation exchanger resin that is being produced without the use of environmentally harmful solvents. It is based on cross linked polystyrene strongly acidic cation resin with high capacity and has a dark brown translucent bead. The resin contains a sulphonic acid functional groups. The resin is extremely robust and has excellent physical and chemical characteristics. It is supplied in a moist condition in the hydrogen form.

INDION 525 H NS 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 NS has a higher specific gravity leading to better separation from anion resin in mixed bed units. INDION 525 H NS 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	Dark brown to black colour 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*	800 – 840 kg/m ³
Particle size range	0.3 to 1.2 mm
> 1.2 mm	5.0 %, minimum
< 0.30 mm	1.0 %, maximum
Effective Size	0.45 to 0.60
Uniformity Coefficient	1.7, maximum
Maximum operating temperature	130 ^o C
Operating pH range	0 to 14
Resistance to reducing agents	Good
Resistance to oxidizing agents	Generally good, chlorine should be absent
*Weight of resin, as supplied, occupying 1 m ³ 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 resins must never be allowed to become dry. Repeated drying and rewetting

produce stresses analogous to those due to osmotic shock and can lead to fragmentation of Ion exchangers.

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 oxidizing 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[®] is the registered trademark of Ion Exchange (India) Ltd.



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