

INDION® 525

Description

INDION 525 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. The resin is extremely robust and has excellent physical and chemical characteristics. It is supplied in moist condition in hydrogen form.

Applications

INDION 525 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 has a higher specific gravity leading to better separation from anion resin in mixed bed units. INDION 525 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 *	:	790 kg/m ³ , approximately
Particle size range	:	0.3 to 1.2 mm
> 1.2 mm	:	4.0%, maximum
< 0.355 mm	:	0.5%, maximum
Uniformity co-efficient	:	1.7, maximum
Effective size	:	0.45 to 0.55 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 1 m³ 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 cft
MS drums	180 lts	Fiber drums	7 cft
with liner bags		with liner bags	

Storage

Ion exchange resins require proper care at all times. The resins 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. 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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