

INDION[®] 303

Description

INDION 303 is a high capacity strongly acidic cation exchanger in bead form. It is based on cross linked polystyrene and has a gel structure. The resin contains sulphonic acid functional groups. The resin has an indicator inbuilt in the matrix which changes colour at the time of exhaustion

Applications

INDION 303 is recommended in any non-regenerable mixed bed application where reliable production of the highest quality of water is required. A colour indicator allows the visualization of the exhaustion point of the resin.

Characteristics	
Appearance	Moist green coloured beads
Matrix	Styrene DVB
Functional Group	Sulphonic acid
Ionic form as supplied	Hydrogen
Total exchange capacity	1.8 meq/ml, minimum
Moisture holding capacity	49 - 55%
Shipping weight*	760 - 820 kg/m ³
Particle size range	0.3 to 1.2 mm
> 1.2 mm	5.0%, maximum
< 0.3 mm	1.0%, maximum
Uniformity co-efficient	1.7, maximum
Effective size	0.45 to 0.60 mm
Maximum operating temperature	120° C
Colour indicator	Green (Regenerated form), Violet (Exhausted form)
Operating pH range	0 to 14
Volume change	Na to H, 6% minimum
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 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. Always keep the resin drum in the shade. Recommended storage temperature is between 20°C and 40°C.

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



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