

INDION® 850

Description

INDION 850 is a high porosity weak base anion exchanger in bead form, containing tertiary and quaternary ammonium groups. Its styrene-divinylbenzene macroporous structure gives excellent mechanical strength and exceptional resistance to osmotic shock.

INDION 850 also has excellent resistance to fouling by organic matter present in natural waters.

This anion exchanger can be operated at high regeneration efficiency like most weak base anion exchangers. Excellent kinetics of INDION 850 makes operation possible over a relatively wide range of flow rates.

Characteristics

Appearance	:	Opaque off white to brown beads
Matrix	:	Styrene divinyl benzene copolymer
Functional Group	:	Tertiary & quaternary ammonium
Ionic form as supplied	:	Free base
Total exchange capacity	:	1.5 meq/ml, minimum
Moisture holding capacity in Cl form	:	47 - 55 %
Shipping weight *	:	640 kg/m ³ approximately
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	:	0.40 to 0.50 mm
Volume change	:	Free base to hydrochloride form, 25%, maximum
Osmotic strength	:	Excellent
Mechanical strength	:	Excellent
Maximum operating temperature	:	60 °C free base form 80 °C hydrochloride form
Operating pH range	:	0 to 7
Resistance to reducing agents	:	Good
Resistance to oxidizing agents	:	Generally good, chlorine should be absent

* Weight of resin, as supplied, occupying 1 m³ in a unit after backwashing and draining.

Use of good quality regenerants

All ion exchange resins are subject to fouling and blockage of active groups by precipitated iron. Hence the iron content in the feed water should be low and the regenerant sodium hydroxide must be essentially free from iron and heavy metals. All resins, especially the anion exchangers are prone to oxidative attack resulting in problems such as loss of capacity, resin clumping, etc. Therefore sodium hydroxide should have as low a chlorate content as possible. Good quality regenerant of technical or chemically pure grade should be used to obtain best results.

Packing

HDPE lined bags	25/50 lts	LDPE bags	1 cft/25 lts
Super sack	1000 lts	Super sack	35 cft
MS drums		Fiber drums	
with liner bags	180 lts	with liner bags	7 cft

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.

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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 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.



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