ION EXCHANGE
Refreshing the Planet

INDION® 8500

Description

INDION 8500 is a high porosity weak base anion exchanger in bead form, containing tertiary and quaternary ammonium groups. Its styrene divinyl benzene macroporous structure gives excellent mechanical strength and exceptional resistance to osmotic shock.

INDION 8500 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.
The excellent kinetics of INDION 8500 makes operation possible over are 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	44 – 52 %
Shipping weight*	620 – 670 kg/m^3
Fines content (< 0.42 mm)	0.5 %, maximum
Uniformity co-efficient	1.2, maximum
Effective size	0.50 to 0.65 mm
Maximum operating temperature	60^0C in OH form, 80^0C in hydrochloride form
Operating pH range	0 to 7
Volume change	Free base to hydrochloride form, 25% maximum
Osmotic & Mechanical Strength	Excellent
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.	

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 resin requires 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 demineralized water and keep it in a completely moist condition. Always keep the resin drum in the shade. Recommended storage temperature is between 20^0C and 40^0C.

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.

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