ION EXCHANGE
Refreshing the Planet

INDION® 830

Description

INDION 830 is a strong base type I anion exchange resin having quaternary ammonium functional groups. It is based on crosslinked polystyrene and has a macroporous structure. INDION 830 possesses a highly porous structure which is capable of absorbing and desorbing organic material. INDION 830 is supplied and used in chloride form to scavenge organic molecules of medium to high molecular weight. It is operated in the salt cycle using warm brine as the regenerant. Its resistance to organic fouling is superior to gel-type resins because of its large pore structure.

INDION 830 has high osmotic and thermal shock resistance.

INDION 830 can be used to remove tannins from both industrial and residential water supplies. As an organic scavenger INDION 830 can be used prior to demineraliser using brine as a regenerant. INDION 830 can also be placed in the same vessel with INDION 225 Na using the same brine regenerant. INDION 830 will stay in place because of the difference in densities between the two resins.

Characteristics	
Appearance	Off white to brown opaque beads
Matrix	Styrene divinylbenzene copolymer
Functional Group	Quaternary ammonium
Ionic form as supplied	Chloride
Total exchange capacity	0.95 meq/ml, minimum
Moisture holding capacity	57 - 66 %
Shipping weight*	640 - 700 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	80^0 C
Operating pH range	4 to 10 for organic removal
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.

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