ION EXCHANGE
Refreshing the Planet

INDION® 222 Na

Description

INDION 222 Na 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. It is supplied moist in the sodium form.

Applications

INDION 222 Na is used most widely in sodium form for water softening application. It can be used also in two stage de-ionising as the cation exchanger in the hydrogen cycle.

Characteristics	
Appearance	Golden yellow beads
Matrix	Styrene divinylbenzene copolymer
Functional Group	Sulphonic acid
Ionic form as supplied	Sodium
Total exchange capacity	1.92 meq/ml, minimum
Moisture holding capacity	47 - 53%
Shipping weight*	800 - 840 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	140^0 C
Operating pH range	0 to 14
Resistance to reducing agents	Good
Resistance to oxidizing agents	Generally good, chlorine should be absent
*Weight of resin, as supplied, occupying 1m^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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