

INDION® 830 S

Organic Scavenger

Description

INDION 830 S is a macroporous grade polystyrenic strong base type I anion exchanger having quaternary ammonium functional groups. The proper mix of loosely bound crosslinks and highly porous matrix provide it better adsorption kinetics for long chain organic molecules. Such type of molecules generally cause fouling of functional polymers. However INDION 830 S does not face this problem because it is reversible in regeneration cycle. INDION 830 S is osmotically stable and is supplied in chloride form.

Applications

As INDION 830 S resin has better affinity for colouring matters in chloride form, it can be effectively used as a decolouriser in processing of sugars, starch hydrolysates, textile processing waste water etc... One of the proven applications of INDION 830 S is for removal of naturally occurring organics and colouring matter from ground water in Himalayan region. Several commercial installations incorporating INDION 830 S are already in use giving sparkling water in various hotels.

NOTE: Due to the complexity of structure and nature of dissolved organics in water and waste water, we suggest the user to evaluate the resin in the laboratory prior to use, for various applications.

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 *	:	650 kg/m ³ , approximately
Particle size range	:	0.3 to 1.2 mm
> 1.2 mm	:	5.0%, maximum
< 0.3 mm	:	0.1%, maximum
Uniformity co-efficient	:	1.7, maximum
Effective size	:	0.45 to 0.55 mm
Treatment flow rate	:	10 - 20 bv/h
Maximum operating temperature	:	80° C
Operating pH range	:	4 to 10 for organic removal
Resistance to reducing agents	:	Good
Resistance to oxidising agents	:	Generally good, chlorine should be absent

Impurities

Iron	:	80 mg/l maximum as Fe
Heavy metals	:	40 mg/l maximum as Pb
Water soluble organics	:	0.2 mg KMnO ₄ /ml, maximum

* 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 cft
MS drums		Fiber drums	
with liner bags	180 lts	with liner bags	7 cft

Storage

Ion exchange resins require proper care at all times. The resins 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.



CONFORMANCE STATEMENT: This product conforms to NSF / ANSI Standard 61 and is certified with GOLD SEAL from WQA

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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