ION EXCHANGE
Refreshing the Planet

INDION® 790 Na

Description

INDION 790 Na is a macroporous strong acid cation exchange resin and has a sulphonic acid functional group, supplied in sodium form. A proper mix if high cross-linkage and porosity gives this product outstanding physical stability while maintaining the high exchange capacity of conventional gel resins.

INDION 790 Na is very resistance to osmotic, mechanical, and thermal shocks. INDION 790 Na is recommended for deashing of gelatine, liquid glucose, dextrose, sorbitol, etc. in combination with INDION 860 S. INDION 790 Na should be converted to H form with appropriate pretreatment before service.

Characteristics	
Appearance	Opaque dark grey beads
Matrix	Styrene divinylbenzene copolymer
Functional Group	Sulphonic acid
Ionic form as supplied	Sodium
Total exchange capacity	1.9 meq/ml, minimum
Moisture holding capacity	46 - 51 %
Shipping weight*	750 - 790 kg/m^3
Particle size range	0.3 to 1.2 mm
> 1.2 mm	5.0%, maximum
< 0.355 mm	1.0%, maximum
Uniformity co-efficient	1.7, maximum
Effective size	0.45 to 0.60 mm
Maximum operating temperature	120^0 - 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 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. Repeated drying and rewetting produce stresses analogous to those due to osmotic shock and can lead to fragmentation of Ion exchangers.

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.

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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