ION EXCHANGE
Refreshing the Planet

INDION® 730

Description

INDION 730 resin is a strongly acidic cation exchanger containing sulphonic acid groups. It is based on crosslinked polystyrene and has a macroporous structure particularly suited for speciality applications in aqueous and non-aqueous systems.

INDION 730 is prepared so as to give it a better resistance towards stress and strain generally encountered in non-water applications. It is supplied in hydrogen form, in a moist condition. INDION 730 is recommended mainly in chemical processing like deashing or demineralisation of gelatine, high solid containing syrups, proteins/starch hydrolysates and in hydrometallurgical application. The resistance of the matrix for organic fouling makes it superior in performance for processing of natural base product while its excellent physical and chemical characteristics and oxidative stability make it suitable for heavy metal removal systems. INDION 730 can also be used for conversion of di-sodium tartarate dihydrate to tartaric acid.

Characteristics	
Appearance	Opaque dark grey beads
Matrix	Styrene divinylbenzene copolymer
Functional Group	Sulphonic acid
Ionic form as supplied	Hydrogen
Total exchange capacity	1.6 meq/ml, minimum
Moisture holding capacity	54 - 57 %
Shipping weight*	720 - 760 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 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.

ION EXCHANGE (INDIA) LTD.

Corporate Office
Ion House, Dr. E. Moses Road, Mahalaxmi,
Mumbai - 400011 | Tel: +91 22 6231 2000
E-mail: ieil@ionexchange.co.in

International Division
R-14, T.T.C MIDC, Thane - Belapur Road, Rabale,
Navi Mumbai - 400 701 | Tel: +91 22 6857 2400
E-mail: export.sales@ionexchange.co.in

Regional and Branch Offices
Bengaluru | Bhubaneswar | Chandigarh | Chennai
Delhi | Hyderabad | Kolkata | Lucknow | Vadodara
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Overseas Offices
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