

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	:	Greyish beads
Matrix	:	Styrene divinylbenzene copolymer
Functional Group	:	Sulphonic acid
Ionic form as supplied	:	Hydrogen
Total exchange capacity	:	1.7 meq/ml, minimum (in Sodium form)
Moisture holding capacity	:	54 - 57 %
Shipping weight *	:	740 kg/m ³ , approximately
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° C - 150° 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 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 with liner bags	180 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. This product data sheet (issue 09/2008) replaces previous issues.

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.

INDION is the registered trademark



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