

# 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 <sup>3</sup> , 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
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<sup>3</sup> 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 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.

**INDION** is the registered trademark of Ion Exchange (India) Ltd.



### CORPORATE OFFICE

Ion House, Dr. E. Moses Road, Mahalaxmi, Mumbai 400 011  
Tel: 022-3989 0909 Fax: 022-2493 8737  
E-mail: ieil@ionexchange.co.in

### INTERNATIONAL DIVISION

R-14, T.T.C MIDC, Thane-Belapur Road, Rabale, Navi Mumbai 400 701  
Tel: 022-3989 0909/3047 2400 Fax: 022-2769 7918  
E-mail: rabcrointl@ionexchange.co.in; export.sales@ionexchange.co.in

### REGIONAL OFFICES

- Chennai - Tel: 044-3989 0909/3910 2900 Fax: 044-2815 3361  
E-mail: checro@ionexchange.co.in
- Delhi - Tel: 011-3989 0909/3054 3200 Fax: 011-2577 4837  
E-mail: delcro@ionexchange.co.in
- Kolkata - Tel: 033-3989 0909/3043 3400 Fax: 033-2400 4345  
E-mail: calcro@ionexchange.co.in
- Vashi - Tel: 022-3989 0909/3913 2300 Fax: 022-2788 9839  
E-mail: mumcro@ionexchange.co.in

### BRANCH OFFICES

- Bengaluru - Tel: 080-2204 2888  
E-mail: bngcro@ionexchange.co.in
- Bhubaneswar - Tel: 0674-326 9525  
E-mail: bbsr@ionexchange.co.in
- Chandigarh - Tel: 0172-274 5011 Fax: 0172-274 4594  
E-mail: delcro@ionexchange.co.in
- Hyderabad - Tel: 040-3066 3101/02/03 Fax: 040-3066 3104  
E-mail: hydcro@ionexchange.co.in
- Lucknow - Tel: 0522-301 3401/02 Fax: 0522-301 3401  
E-mail: luk.general@ionexchange.co.in
- Vadodara - Tel: 0265-302 7489/90 Fax: 0265-239 8508  
E-mail: brdcro@ionexchange.co.in
- Visakhapatnam - Tel: 0891-324 6253  
E-mail: sales.vizag@ionexchange.co.in

**FACTORIES :** Ankleshwar • Hosur • Patancheru • Rabale • Verna  
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