

INDION® GS 400

Description

INDION GS 400 is a strong base Type II anion exchange resin based on cross linked polystyrene matrix with benzyl dimethyl ethanol amine functional groups. It has a gel structure with high physical strength. INDION GS 400 has high operating exchange capacity, excellent regeneration efficiency and very low rinse water requirements.

INDION GS 400 is recommended as the anion exchange resin in the second stage of a de-ionising pair with the cation exchange resin INDION 225 H in the first stage.

INDION GS 400 is particularly recommended for use in a two stage de-ionising plant for removal of mineral acid anions and some silica, while keeping the running costs down. If treated water with lowest possible level of residual silica is desired, this two stage treatment should be followed by mixed bed de-ionisation using a strong acid cation resin INDION 225 H and a strong base Type I anion resin INDION GS 300.

Characteristics

Appearance	:	Light yellowish to light brown colour beads
Matrix	:	Styrene divinylbenzene copolymer
Functional Group	:	Benzyl dimethyl ethanolamine
Ionic form as supplied	:	Chloride
Total exchange capacity	:	1.2 meq/ml, minimum
Moisture holding capacity	:	45 - 51 %
Shipping weight *	:	670kg/m ³ , approximately
Particle size range	:	0.3 to 1.2 mm
> 1.2 mm	:	5.0 %, maximum
< 0.3 mm	:	1.0 %, maximum
Uniformity co-efficient	:	1.7, maximum
Effective size	:	0.45 to 0.55 mm
Maximum operating temperature	:	40° C in OH form 75° C in Cl form
Operating pH range	:	0 to 14
Volume change	:	Cl to OH, 10 -15 % maximum
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		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 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 0909/3047 2400 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
- Vishakhapatnam - Tel: 0891-324 6253
E-mail: sales.vizag@ionexchange.co.in

FACTORIES : Ankleshwar • Hosur • Patancheru • Rabale • Verna
ALL INDIA SERVICE AND DEALER NETWORK

Visit us at : www.ionindia.com