

# INDION® GS 3000

## Description

INDION GS 3000 is a controlled particle size strong base Type 1 anion exchange resin, containing quaternary ammonium groups. It is based on crosslinked polystyrene and has a gel structure with high mechanical strength.

like carbonic and silicic acid along with strong acids. It is recommended for use in two stage/multiple stage or mixed bed deionising units for producing high quality demineralised water with lowest possible residual silica. Being a high strength gel resin, it is recommended for use in condensate polishing. It is also recommended for speciality non-water applications such as caprolactum purification.

## Applications

INDION GS 3000 is effective in removing weak acids

INDION GS 3000 is used in combination with strong acid cation resin INDION 2250.

### Characteristics

Appearance	:	Translucent pale yellow beads
Matrix	:	Styrene divinylbenzene copolymer
Functional Group	:	Benzyl trimethyl amine
Ionic form as supplied	:	Chloride
Total exchange capacity	:	1.3 meq/ml, minimum
Moisture holding capacity	:	48 - 58 %
Shipping weight *	:	650 kg/m <sup>3</sup> , approximately
Bead strength	:	300 g (avg),
Uniformity co-efficient	:	1.2, maximum
Effective size	:	0.5 - 0.65 mm
Fine content (<0.42 mm)	:	0.5%, maximum
Volume change	:	Cl to OH, 25 - 30 % approximately
Suggested operating conditions		
Maximum operating temperature	:	60° C in OH form 80° C in Cl form
Operating pH range	:	0 - 14
Minimum bed Depth	:	0.8 m
Service flow rate	:	5 - 50 bv / hr
Maximum velocity	:	60 m/hr
Regeneration		
Regenerant	:	NaOH
Flow rate	:	2 - 8 bv / hr
Regeneration level	:	40 - 100 kg/m <sup>3</sup>
Concentration	:	2 - 5 %, w/v
Contact time	:	20 minutes, minimum
Slow rinse	:	2 bv at regeneration flow rate
Fast rinse	:	3 - 6 bv at service flow rate

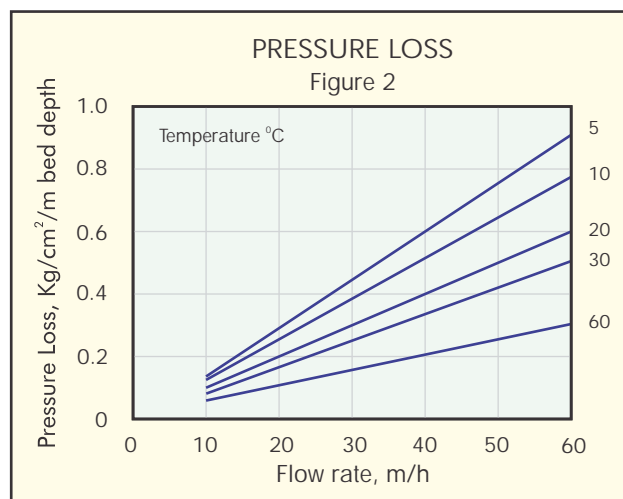
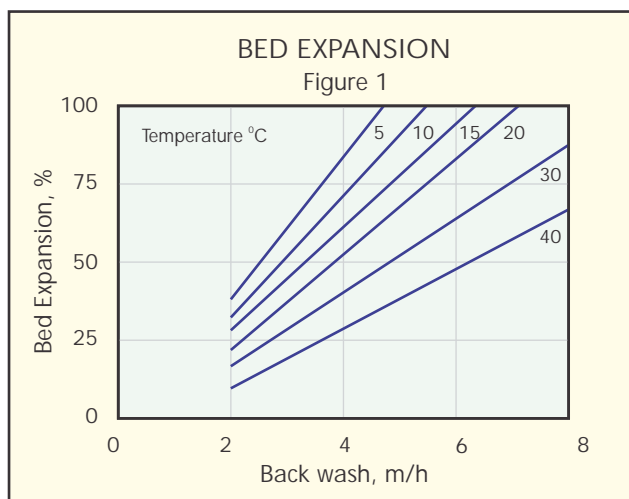
\* Weight of resin, as supplied, occupying 1 m<sup>3</sup> in a unit after backwashing and draining.

1 bv (bed volume) = 1 m<sup>3</sup> fluid / m<sup>3</sup> of resin

## Packing

HDPE Lined bags	25/ 50 lts
Super sack	1000 lts
Super sack	35 cft

LDPE bags	1 cft / 25 lts
MS drums with liner bags	180 lts
Fiber drums with liner bags	7 cft



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**

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