

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 *	:	660 kg/m ³ , 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 ³
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

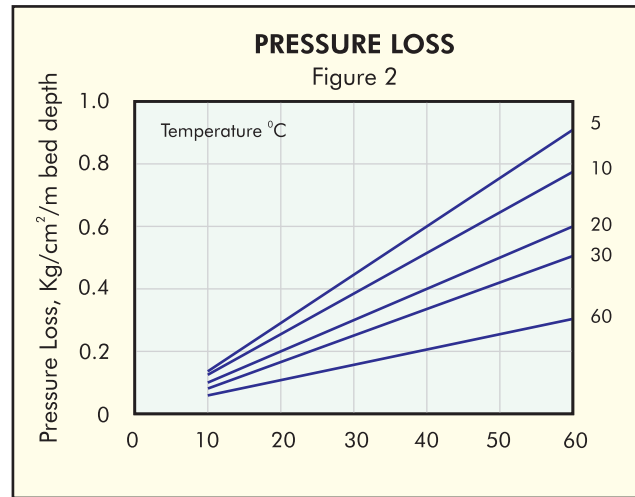
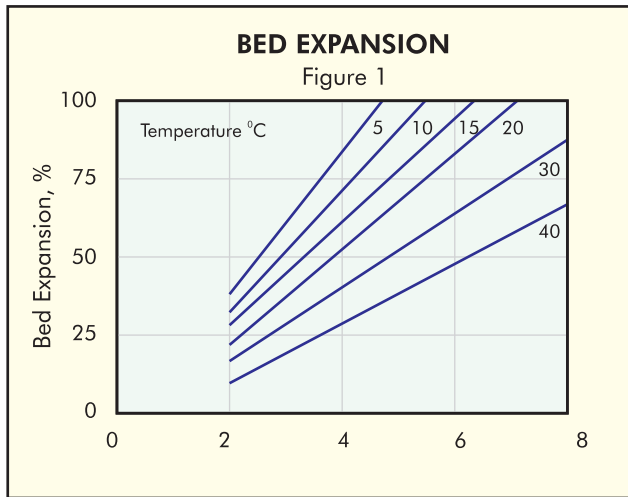
* Weight of resin, as supplied, occupying 1 m³ in a unit after backwashing and draining.

1 bv (bed volume) = 1 m³ fluid / m³ 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 state-of-the-art ISO 9001 and ISO 14001 certified manufacturing facility at Ankleshwar, Gujarat.

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.

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ION EXCHANGE (INDIA) LTD.

Corporate Office

Ion House, Dr. E. Moses Road,
 Mahalaxmi, Mumbai 400 011
 Tel: +91 22 3989 0909 | Fax: +91 22 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: +91 22 3989 0909 / 3913 2400 | Fax: +91 22 2769 7918
 E-mail: export.sales@ionexchange.co.in

OFFICES

Regional	Telephone	Fax	E-mail
Chennai	+91 44 3989 0909 / 3910 2900	+91 44 2815 3361	checro@ionexchange.co.in
Delhi	+91 11 3989 0909 / 3054 3200	+91 11 2577 4837	delcro@ionexchange.co.in
Kolkata	+91 33 3989 0909 / 3043 3400	+91 33 2400 4345	calcro@ionexchange.co.in
Vashi	+91 22 3989 0909 / 3913 2300	+91 22 2788 9839	mumcro@ionexchange.co.in
Branch			
Bengaluru	+91 80 2204 2888	+91 80 2853 2002	bngcro@ionexchange.co.in
Bhubaneswar	+91 674 326 9525 / 257 1491		bbsr@ionexchange.co.in
Chandigarh	+91 172 274 5011	+91 172 274 4594	delcro@ionexchange.co.in
Hyderabad	+91 40 3066 3101 / 02 / 03	+91 40 3066 3104	hydrcro@ionexchange.co.in
Lucknow	+91 522 319 9911	+91 11 2577 4837	lko.general@ionexchange.co.in
Vadodara	+91 265 302 7489 / 90	+91 265 2352 932	brdcro@ionexchange.co.in
Visakhapatnam	+91 891 324 6253	+ 91 891 257 2007	sales.vizag@ionexchange.co.in

Factories: Ankleshwar | Hosur | Patancheru | Rabale | Verna

All India Service and Dealer Network

www.ionresins.com