

# INDION® 2250 H

## Description

INDION 2250 H is a controlled particle size premium grade strong acid cation exchange resin containing sulphonic acid groups. It is based on cross-linked polystyrene and has a gel structure. The resin has high capacity and excellent kinetics.

## Applications

INDION 2250 H is used in coflow and counter flow modes as a first stage in demineralising for the removal of cations. INDION 2250 H can be used with INDION GS 3000 Cl in mixed bed and condensate polishing units.

### Characteristics

Appearance	:	Golden yellow to brown beads
Matrix	:	Styrene divinylbenzene copolymer
Functional Group	:	Sulphonic acid
Ionic form as supplied	:	Hydrogen
Total exchange capacity	:	1.8 meq/ml, minimum
Moisture holding capacity	:	49 - 55 %
Shipping weight *	:	790 kg/m <sup>3</sup> , approximately
Uniformity co-efficient	:	1.2, maximum
Effective size	:	0.50 to 0.65 mm
Fine content (< 0.42 mm)	:	0.5%, maximum
Volume change	:	Na to H, 8% approximately

### Suggested operating conditions

Maximum operating temperature	:	120°C
Operating pH range	:	0 - 14
Minimum bed Depth	:	0.8 m
Service flow rate	:	8 - 48 BV/hr
Maximum velocity	:	60 m/hr

### Regeneration

Regenerant	:	HCl		H <sub>2</sub> SO <sub>4</sub>	
		Coflow	CCR	Coflow	CCR
Flow rate (bv/hr)	:	3 - 18	3 - 18	3 - 18	3 - 18
Regeneration level (Kg/m <sup>3</sup> )	:	40 - 160	40 - 200	40 - 160	40 - 200
Concentration (%)	:	4 - 5	2.5 - 5	1.5 - 5	1.5 - 5
Contact time (minutes, minimum)	:	15	20	20 - 50	20
Slow rinse	:	2 bv at regeneration flow rate			
Fast rinse	:	1 - 3 bv at service flow rate			

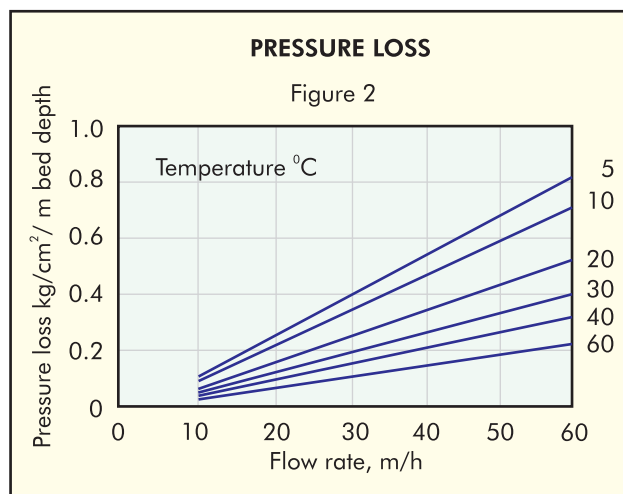
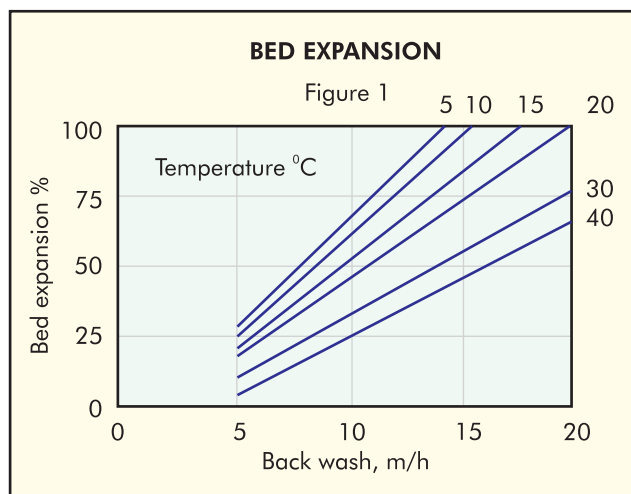
\* Weight of resin, as supplied, occupying 1 m<sup>3</sup> in a unit after backwashing and draining.

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 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	hydcro@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