

# INDION® 2250 Na

## Description

INDION 2250 Na is a controlled particle size, strongly acidic, unfunctional, cation exchange resin containing sulphonic acid groups. It is based on cross-linked polystyrene and has a gel structure. The resin is extremely robust and has excellent physical and chemical properties. It is supplied moist in the sodium form.

## Applications

INDION 2250 Na is used most widely in sodium form for water softening application and it can be used as a substitute for conventional cation resin. It can also be used in two-stage de-ionising as the cation exchanger in the hydrogen form with INDION GS 3000 Cl.

### Characteristics

Appearance	Golden yellow beads
Matrix	Styrene divinylbenzene copolymer
Functional Group	Sulphonic acid
Ionic form as supplied	Sodium
Total exchange capacity	2.0 meq/ml, minimum
Moisture holding capacity	43 - 50%
Shipping weight*	800 - 850 kg/m <sup>3</sup>
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

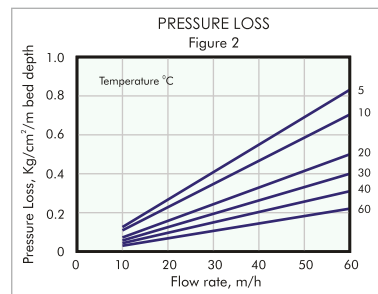
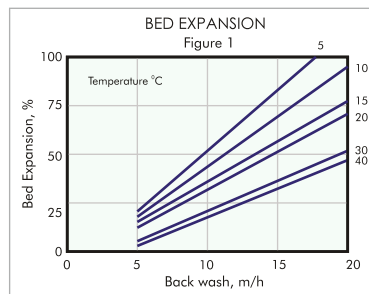
### Suggested operating conditions

Maximum operating temperature	140° C
Operating pH range	0 to 14
Minimum bed Depth	0.8 m
Service flow rate	8-48 BV/hr
Maximum velocity	60 m/hr

Regeneration	
Regenerant	NaCl
Flow rate (bv/hr)	2-4 bv/h
Regeneration level (Kg/m <sup>3</sup> )	80-200 kg/m <sup>2</sup>
Concentration (%)	10-15%, w/v
Contact time (minutes, minimum)	20 minutes, minimum
Slow rinse	1-2 bv at regeneration flow rate
Fast rinse	3-4 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>2</sup> fluid/m <sup>2</sup> of resin	

## Packing

HDPE Lined bags	:	25/50 lts
LDPE bags	:	1 cft/25 lts
Super sack	:	1000 lts
Super sack	:	35/40/42 cft
MS/HDPE drums with liner bags	:	180/200 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**<sup>®</sup> is the registered trademark of Ion Exchange (India) Ltd.



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### Manufacturing Units

India - Ankleshwar | Hosur | Patancheru | Rabale | Verna | Wada

Overseas - Bangladesh | Indonesia | Saudi Arabia | UAE

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