

INDION® GRR

Description

INDION GRR 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.

Applications

INDION GRR is effective in removing weak acids

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 the 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.

INDION GRR 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 - 710 kg/m ³
Bead strength	300 g (avg)
Uniformity co-efficient	1.2, maximum
Effective size	0.50 to 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	7 to 14
Minimum bed Depth	0.8 m
Service flow rate	5-50 bv / hr
Maximum velocity	60 m/hr

Regeneration	
Regenerant	NaOH
Flow rate (bv/hr)	2-8 bv / hr
Regeneration level (Kg/m ³)	40-100 kg/m ³
Concentration (%)	2-5 %, w/v
Contact time (minutes, minimum)	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 ³ in a unit after backwashing and draining. 1 bv (bed volume) = 1 m ³ fluid/m ³ of resin	

Packing

HDPE Lined bags	:	25/50 Its
LDPE bags	:	1 cft/25 Its
Super sack	:	1000 Its
Super sack	:	35/40/42 cft
MS/HDPE drums with liner bags	:	180/200 Its
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.



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Manufacturing Units

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