

# INDION® 222 Na BL

## Solvent Free Cation

### Description

INDION 222 Na BL is a brown to black coloured high capacity strongly acidic cation exchanger in bead form. It is based on cross-linked polystyrene and has a gel structure. The resin contains sulphonic acid functional groups. It is supplied moist in the sodium form produced by solvent-free process.

### Applications

INDION 222 Na BL is used most widely in sodium form for water softening applications. It can be used also in two-stage de-ionising as the cation exchanger in the hydrogen cycle. For potable water application, it is recommended to rinse the resin with 20 BV of water preferably DI water before putting it into use.

Characteristics	
Appearance	Brown to Black coloured beads
Matrix	Styrene divinylbenzene copolymer
Functional Group	Sulphonic acid
Ionic form as supplied	Sodium
Total exchange capacity	1.9 meq/ml, minimum
Moisture holding capacity	46 - 51%
Shipping weight*	760 - 820 kg/m <sup>3</sup>
Particle size range	0.3 to 1.2 mm
> 1.2 mm	5.0%, maximum
< 0.3 mm	1.0%, maximum
Uniformity co-efficient	1.7, maximum
Effective size	0.42 to 0.52 mm
Treatment flow rate	5 - 40 bv/h
Operating pH range	0 to 14
Maximum operating temperature	120° C
Resistance to reducing agents	Good
Resistance to oxidizing agents	Generally good, chlorine should be absent
Organic extractives	1 mg/l maximum in de-ionised water

(As per USFDA 21 CFR 173.25)	1 mg/l maximum in 15% v/v ethanol solution
<b>Impurities</b>	
Iron	100 mg/l maximum as Fe
Heavy Metals	20 mg/l maximum as Pb
Arsenic	3 mg/l maximum as As
*Weight of resin, as supplied, occupying 1 m <sup>3</sup> in a unit after backwashing and draining.	

## 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

## Storage

Ion exchange resins require proper care at all times. The resin must never be allowed to become dry.

Regularly open the plastic bags and check the condition of the resin when in storage.

If not moist, add enough clean demineralised water and keep it in completely moist condition. Always keep the resin drum in the shade. Recommended storage temperature is between 20°C and 40°C.

## Safety

Acid and alkali solutions used for regeneration are corrosive and should be handled in a manner that will prevent eye and skin contact. If any oxidising agents are used, necessary safety precautions should be observed to avoid accidents and damage to the resin.

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

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

Overseas - Bangladesh | Indonesia | Saudi Arabia | UAE

All India Service and Dealer Network

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