

INDION® NSSR

Description

INDION NSSR is a macroporous strongly basic anion resin which is tailor made to suit removal of nitrate ions from water for potable uses. The proper mix of physico-chemical properties gives ideal nitrate exchange kinetics to this resin making suitable for nitrate removal in the presence of sulphate ions.

High concentration of nitrate in water is a potential hazard for two reasons. The nitrate ions form complexes with the blood and in the long run cause oxygen depletion affecting human life. The flow of nitrate bearing water through iron pipes can cause depletion of oxygen leading to corrosion. In view of these difficulties use of an Ion Exchange resin is the preferred process for nitrate removal.

Opaque off white to brown beads Styrene divinylbenzene copolymer

650 - 690 kg/m³, approximately

Generally good, chlorine should be absent

Quaternary ammonium

0.9 meg/ml, minimum

Chloride

45 - 55 %

0.3 to 1.2 mm 5.0%, maximum

1.0%, maximum

0.40 - 0.55 mm

100° C in Cl form

1.7, maximum

10%

0 to 14

Good

Excellent

Characteristics

Appearance

Matrix

Functional group Ionic form as supplied

Total exchange capacity

Moisture holding capacity

Non spherical beads Shipping weight *

Particle size range

> 1.2 mm < 0.3 mm

Uniformity co-efficient

Effective size

Maximum operating temperature

Operating pH range

Resistance to reducing agents

Resistance to oxidising agents

Osmotic stability

Typical operating data

1.0 m Bed Depth

Backwash 5 m³ / h m² for 5 to 10 minutes

Regenerant NaCl

Regeneration level 125 kg of NaCl/m³ 5% - 10% w/v Regenerant concentration 2 - 4 BV/h Injection flow rate

Slow rinse volume 2 BV

Slow rinse flow rate At injection flow rate

Fast rinse volume

Fast rinse flow rate At service flow rate Minimum flow greater than or equal to 0.082 gpm/ft³ of resin 0.66 LPH/I of resin

0.66 BV/h

^{*} Weight of resin, as supplied, occupying 1 m³ 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 cft MS drums Fiber drums with liner bags 7 cft

Storage

Ion exchange resin requires 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.



CONFORMANCE STATEMENT:

This product conforms to NSF / ANSI Standard 61 and is certified with GOLD SEAL from WQA

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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