INDION® PA 600

Industrial Grade Polymeric Adsorbent

Description

INDION PA 600 is a polymeric adsorbent supplied as insoluble off white translucent beads. It is a non-ionic, hydrophobic crosslinked polymer. It is a macroporous polymer having high surface area and aromatic nature at it's surface. This surface gives INDION PA 600 excellent physical, chemical and thermal stability.

INDION PA 600 can be regenerated and used through repeated cycles in column or batch operations. It's pore size distribution makes it an excellent choice for the removal of a wide variety of large organic molecules from polar solvents.

Pretreatment

INDION PA 600 polymeric adsorbent is shipped as a water wet product imbibed with sodium chloride and sodium carbonate salts to retard bacterial growth. These salts must be washed from the adsorbent prior to use and it is suggested that this be achieved by washing with water at a linear flowrate of 5-10 m/h

until the required level is achieved. In some sensitive applications, residual monomeric or oligomeric compounds may be required to be removed from the adsorbent. A regeneration with the proposed regenerant is also recommended prior to beginning the first service cycle. If the regenerant is an alcohol, it must be displaced with water prior to beginning the first loading cycle.

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Refreshing the Planet

Applications

- Recovery and purification of antibiotics, water soluble steroids, enzymes and proteins.
- Recovery of plant extracts and fermentation products
- Enzyme immobilization.
- Separation of non-polar organic solutes from polarsolvents.
- Recovery and recycle of phenolic and aromatic compounds.
- Removal of chlorinated solvents, herbicides and pesticides from aqueous streams.

Characteristics		
Appearance	White to off white Translucent beads	
Matrix	Styrene divinylbenzene copolymer	
Moisture holding capacity	55 - 65%	
Shipping weight*	640 - 680 kg/m³	
Particle size range	0.3 to 0.85 mm	
> 0.85 mm	10%, maximum	
< 0.3 mm	5.0%, maximum	
Uniformity co-efficient	1.8, maximum	
Effective size	0.40 to 0.50 mm	
Surface area	600 m²/g approximately	

Porosity	≥1.45 ml/g	
Maximum operating temperature	150° C	
Operating pH range	0 to 14	
Resistance to reducing agents	Good	
Resistance to oxidizing agents	Generally good, chlorine should be absent	
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*Weight of resin, as supplied, occupying 1m³ in a unit after backwashing and draining.

Regenerants/eluting agents

- Methanol or other water miscible organic solvents (acetone, isopropanol etc.)
- Dilute bases (4-5% NaOH) for weakly acidic compounds.
- Dilute acids (4-5% HCl) for weakly basic compounds.
- Water where adsorption is from an ionic solution.
- Steam for volatile materials.

Packing

HDPE Lined bags	:	25/50 lts
LDPE bags	:	1 cft/25 lts
HDPE carbouy with liner bags	:	25/50 lts
HDPE drums with liner bags	:	180 Its

Storage

lon exchange resins require a proper care at all times. The resins must never be allowed to become dry. The plastic bags must be opened regularly and the condition of the resin checked, when in storage. If dry add enough clean water to keep it in complete moist condition. The resin drum must always be kept in shode. 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 lon 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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